737.4

ORNAMENTAL

IRON WORK

THE BUILDING PRODUCTS CO.

TOLEDO, OHIO

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ORNAMENTAL IRON WORK CATALOG

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ORNAMENTAL

IRON WORK

THE BUILDING PRODUCTS CO.

TOLEDO . OHIO

1958

No._____

ISSUED TO The Franklin Institute

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FOREWORD

The photographs and drawings shown in this catalog are necessarily chosen from a large assortment. In making this selection particular attention was directed to showing a wide variety of work. While we specialize in ornamental iron and bronze for ordinary good commercial buildings, and particularly in pressed steel stairs, we are equipped to furnish anything from the most elaborate wrought-iron or bronze work to the simplest manhole cover or cleanout door.

We maintain a large staff of highly trained ornamental men. This enables us to quote prices promptly—frequently by return mail. It also insures immediate attention to the preparation of detail drawings for contracts. Suggestions, sketches and the like are gladly and quickly furnished without charge.

Our shop facilities include several expert smiths and numerous layout men and fitters. Our rigid system of shop inspection, and the standard practice of assembling all work before shipping, guarantees the quality of the finished product.

We prefer to erect our own work wherever the size of tne job warrants the traveling and other incidental expenses. In this erection work we are prepared to adopt labor policies satisfactory to the contractor.

Shipping facilities from our Toledo plant are almost unequalled, due to the unique land and water connections focusing in Toledo.

The illustrations and the list of some recent jobs selected at random from our contract register, give an idea of our responsibility and the concerns with whom we have worked. While a good many of these contracts have been in Ohio, our field is rapidly spreading through the east and south.

Isaac Hausman

PRESIDENT

CAST IRON STAIR, WITH UNUSUAL RAIL AND NEWELS, *Toledo Club, Toledo, Ohio. Architect, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

ANOTHER VIEW OF THE TOLEDO CLUB STAIR, *Toledo Club, Toledo, Ohio. Architect, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

DECORATIVE WROUGHT IRON RAIL, *Toledo Club, Toledo, Ohio. Architect, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

ORNAMENTAL STAIR RAIL AND NEWEL, *Lehman Theatre, Portsmouth, Ohio. Architect, DeVoss & Donaldson, Portsmouth, Ohio. Contractor, The Chappelear-Gardner Construction Co., Portsmouth, Ohio.*

PRESSED STEEL STAIRS, *Fort Meigs Hotel, Toledo, Ohio. Architect, Sidney E. Aftel, Toledo, Ohio. Contractor, The A. Bentley & Sons Co., Toledo, Ohio.*

SERVICE STAIRS, *Toledo Club, Toledo, Ohio. Architect, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

UNUSUAL STAIR RAIL ON PRESSED STEEL STAIR, *Hudson Apartments, Toledo, Ohio. Architect, Bollinger & Hayes, Toledo, Ohio. Contractor, The Watts & Subrbier Co., Toledo, Ohio.*

STAIR (note railing brace), *Burnham High School, Sylvania, Ohio. Architect, T. D. McLaughlin and Associates, Lima, Ohio. Contractor, Holloway & Berkebile, Delta, Ohio.*

PRESSED STEEL STAIR, *The Ohio Power Co., Lima, Ohio. Architect, P. M. Hulsken, Lima, Ohio. Contractor, The Lima Construction Co., Lima, Ohio.*

PRESSED STEEL STAIRS, *Commercial Bank and Trust Co., Bowling Green, Ohio. Architect, Simons, Brittain & English, Pittsburgh, Pa. Contractor, Leo Herman, Edgerton, Ohio.* (Peculiar mottled appearance is due to two color paint.)

STAIR (note rail brace), *North and South Junior High Schools, Findlay, Ohio. Architect, T. D. McLaughlin and Associates, Lima, Ohio. Contractor, Orr & Miller, Lima, Ohio.*

STAIR (note substantial framing of short cross flights), *The Ohio Power Co., Lima, Ohio. Architect, P. M. Hulsken, Lima, Ohio. Contractor, The Lima Construction Co., Lima, Ohio.*

PRESSED STEEL STAIRS, *Monroe St. M. E. Church, Toledo, Ohio. Architect, Harry W. Wachter, Toledo, Ohio. Contractor, The John Pioch Co., Toledo, Ohio.*

PRESSED STEEL STAIRS, *Monroe St. M. E. Church, Toledo, Ohio. Architect, Harry W. Wachter, Toledo, Ohio. Contractor, The John Pioch Co., Toledo, Ohio.*

DOUBLE STAIR, *Aquinas College, Columbus, Ohio. Architect, Fred E. Gilson, Columbus, Ohio. Contractor, Frank A. O'Hare Co., Inc., Chicago, Ill.*

STAIR (note rail brace), *Shiloh School, Ludlow Falls, Ohio. Architect, W. M. McCluer, Dayton, Ohio. Contractor, A. L. Rhoades, Washington C. H., Ohio.*

PRESSED STEEL STAIR WITH SIMPLE ORNAMENTAL RAIL, *Oesterlein Orphans' Home, Springfield, Ohio. Architect, Robert C. Gotwald, Springfield, Ohio. Contractor, James I. Barnes, Springfield, Ohio.*

PRESSED STEEL STAIRS, *Newark Gymnasium, Newark, Ohio. Architect, Vernon Redding and Associates, Mansfield, Ohio. Contractor, O. J. Hawkins & Sons, Newark, Ohio.*

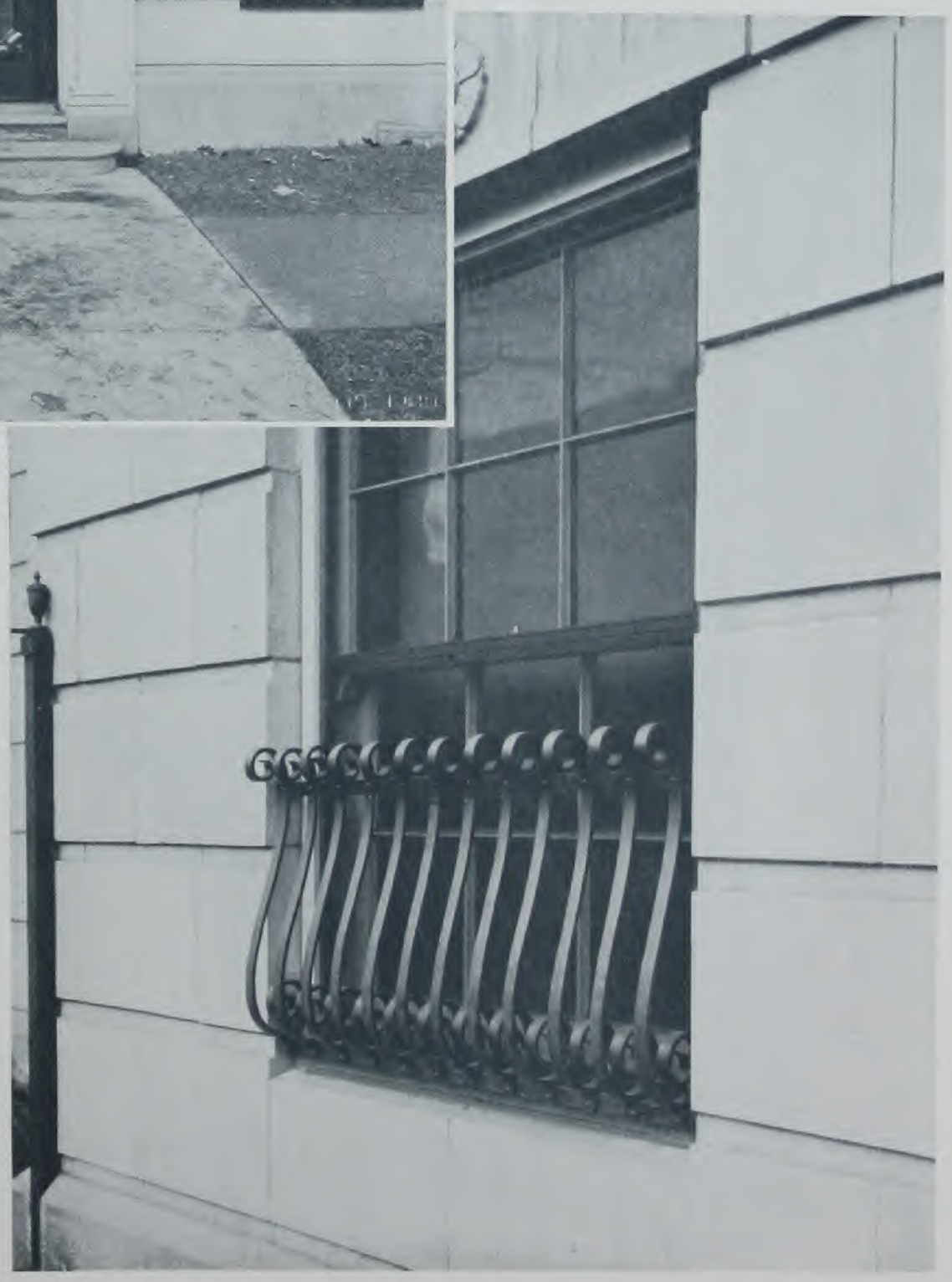
WROUGHT IRON FENCE, *Hudson Apartments, Toledo, Ohio. Architect, Bollinger & Hayes, Toledo, Ohio. Contractor, The Watts & Suhrbier Co., Toledo, Ohio.*

PRESSED STEEL STAIR WITH ORNAMENTAL RAIL, *Calvary Evangelical Lutheran Church, Toledo, Ohio. Architect, C. C. Britsch, Toledo, Ohio. Contractor, The Fred Rinker Co., Toledo, Ohio.*

ENTRANCE RAILS, *Residence of R. S. Cummings, Ottawa Hills, Toledo, Ohio. Architect, Alfred A. Hahn, Toledo, Ohio. Contractor, E. H. Voss, Toledo, Ohio.*

ENTRANCE RAILS, *Residence of R. S. Cummings, Ottawa Hills, Toledo, Ohio. Architect, Alfred A. Hahn, Toledo, Ohio. Contractor, E. H. Voss, Toledo, Ohio.*

ENTRANCE SHOWING WINDOW GUARDS, *Hudson Apartments, Toledo, Ohio. Architect, Bollinger & Hayes, Toledo, Ohio. Contractor, The Watts & Suhrbier Co., Toledo, Ohio.*



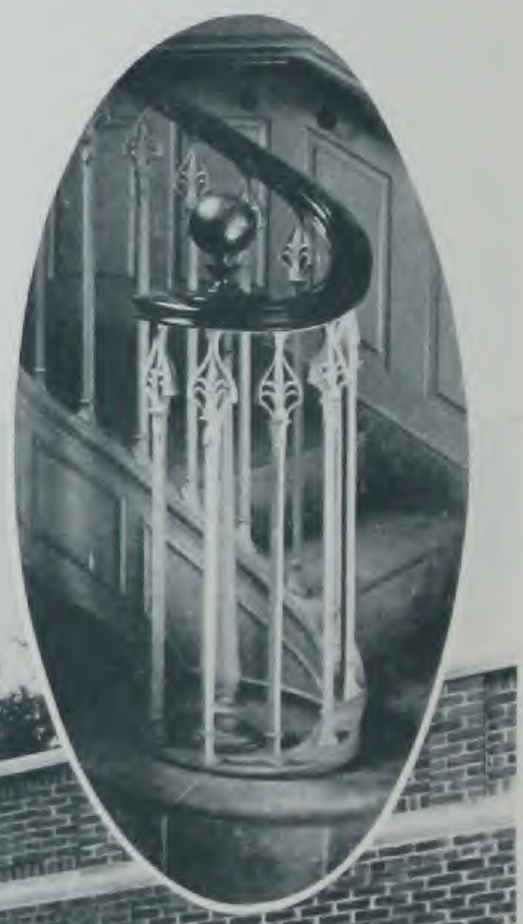
DECORATIVE WINDOW GUARD, *Hudson Apartments, Toledo, Ohio. Architect, Bollinger & Hayes, Toledo, Ohio. Contractor, The Watts & Suhrbier Co., Toledo, Ohio.*

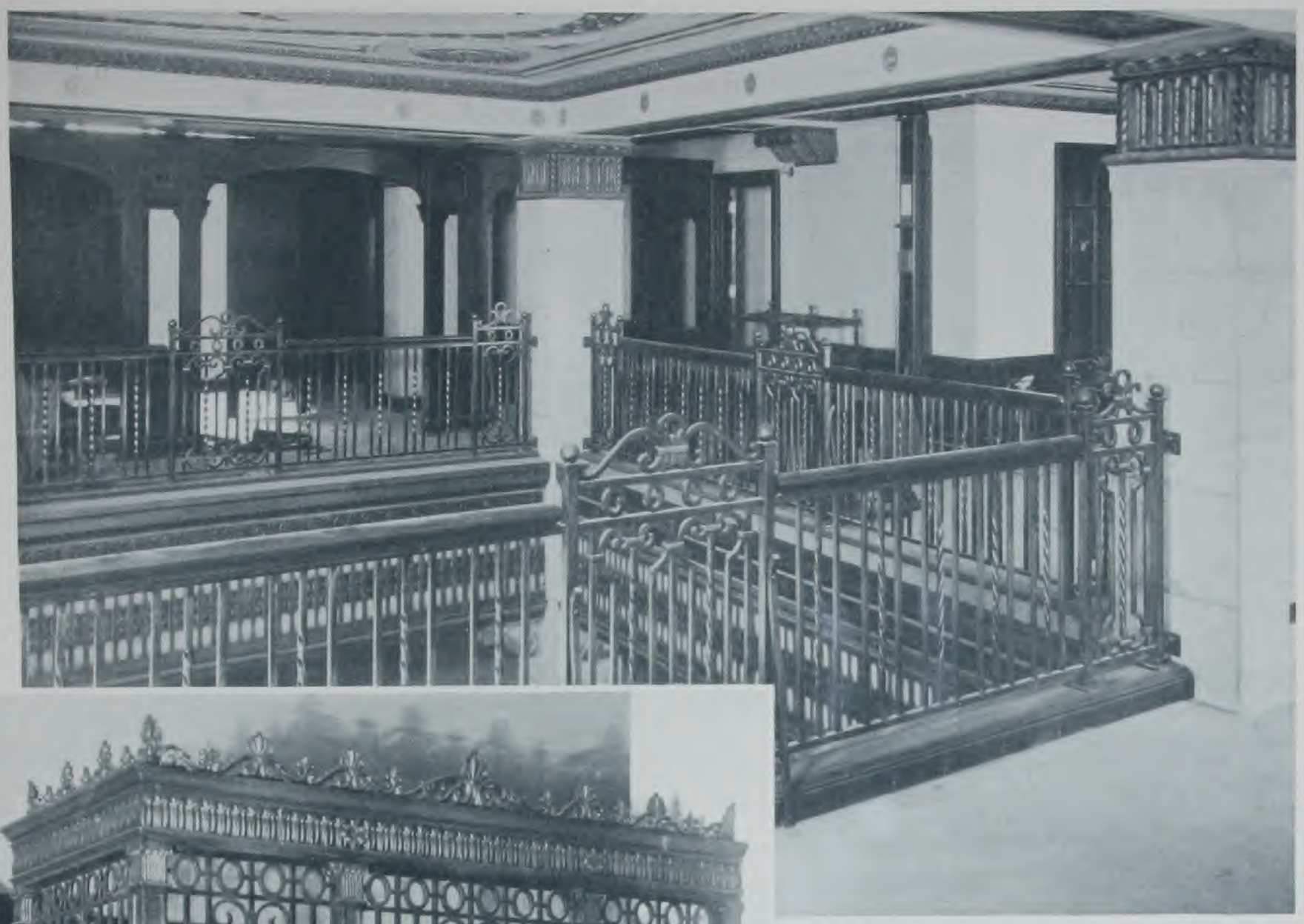
ORNAMENTAL IRON WORK

WROUGHT IRON RAIL, *Women's Dormitory, Granville, Ohio. Architect, A. W. Brunner, New York City. Contractor, The Hodges-Erwin Co., Cincinnati, Ohio.*

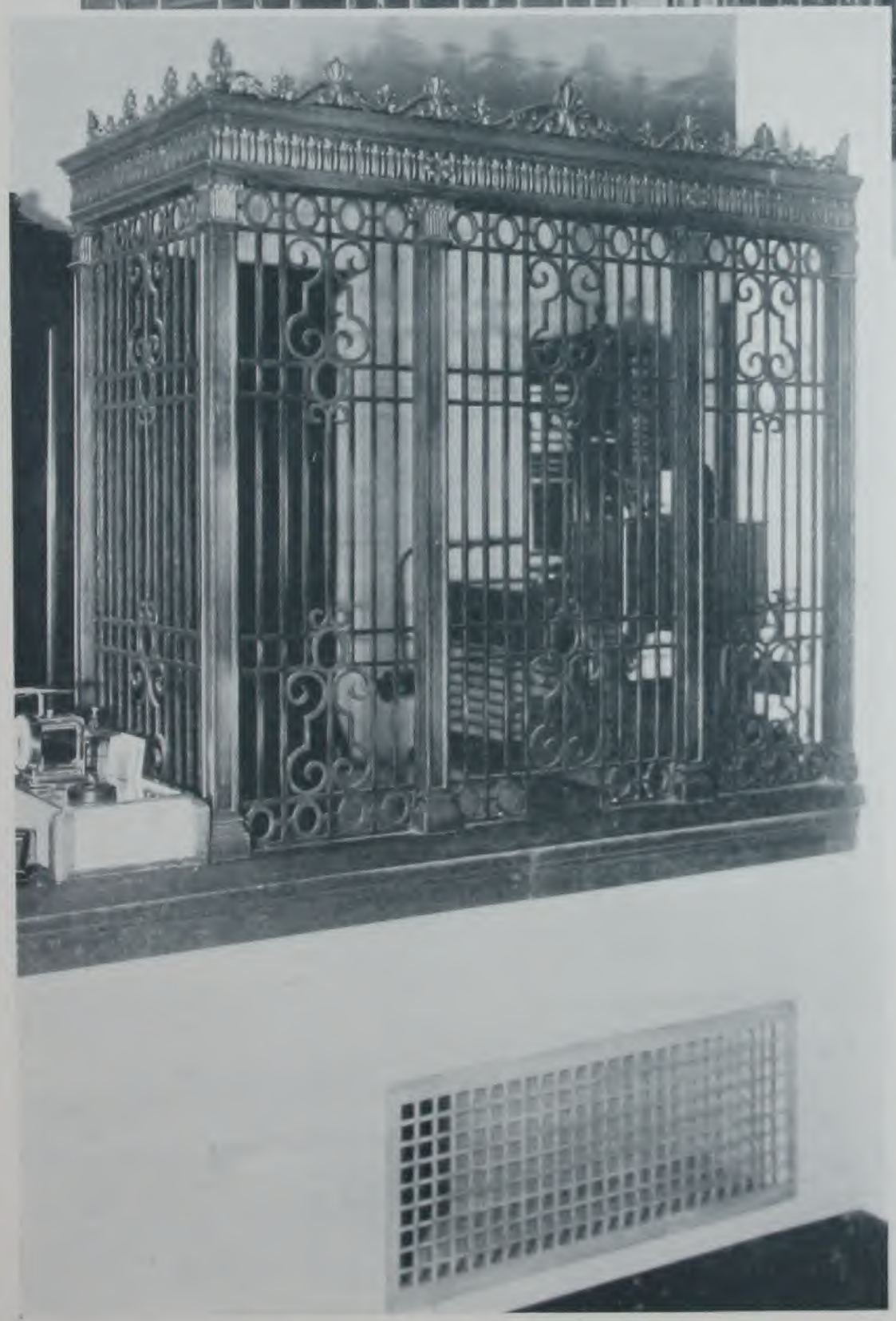
ORNAMENTAL RAILING, *Women's Dormitory, Granville, Ohio. Architect, A. W. Brunner, New York City. Contractor, The Hodges-Erwin Co., Cincinnati, Ohio.*

DECORATIVE STAIR RAIL AND LANTERN NEWEL, *Women's Dormitory, Granville, Ohio. Architect, A. W. Brunner, New York City. Contractor, The Hodges-Erwin Co., Cincinnati, Ohio.*





Ornamental Wrought Iron Mezzanine Rail, *Fort Meigs Hotel, Toledo, Ohio. Architect, Sidney E. Aftel, Toledo, Ohio. Contractor, The A. Bentley & Sons Co., Toledo, Ohio.*



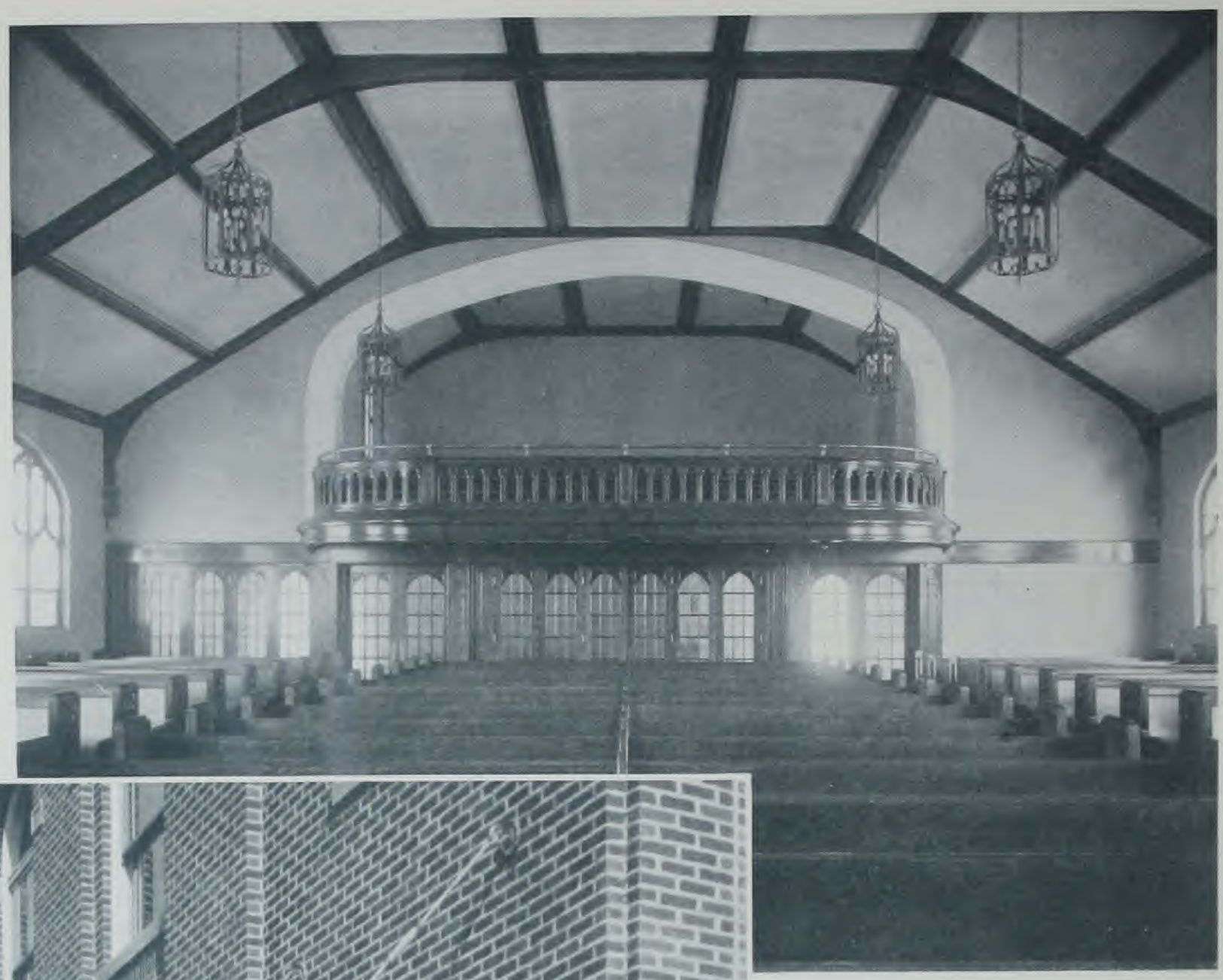
Cashier's Cage, *Fort Meigs Hotel, Toledo, Ohio. Architect, Sidney E. Aftel, Toledo, Ohio. Contractor, The A. Bentley & Sons Co., Toledo, Ohio.*

CAST IRON SPANDRELS, *Commercial Bank & Trust Co., Bowling Green, Ohio. Architect, Simons, Brittain & English, Pittsburgh, Pa. Contractor, Leo Herman, Edgerton, Ohio.*

GENERAL PICTURE, SHOWING GRILLES, CAST IRON FRONT AND SPANDRELS, *Commercial Bank and Trust Co., Bowling Green, Ohio. Architect, Simons, Brittain & English, Pittsburgh, Pa. Contractor, Leo Herman, Edgerton, Ohio.*

CLOSE UP OF CORNER OF MARQUISE, *Lehman Theatre, Portsmouth, Ohio. Architect, DeVoss & Donaldson, Portsmouth, Ohio. Contractor, The Chappelear-GardnerConstruction Co., Portsmouth, Ohio.*

CAST IRON MARQUISE, *Lehman Theatre, Portsmouth, Ohio. Architect, DeVoss & Donaldson, Portsmouth, Ohio. Contractor, Chappelear-Gardner Construction Co., Portsmouth, Ohio.*

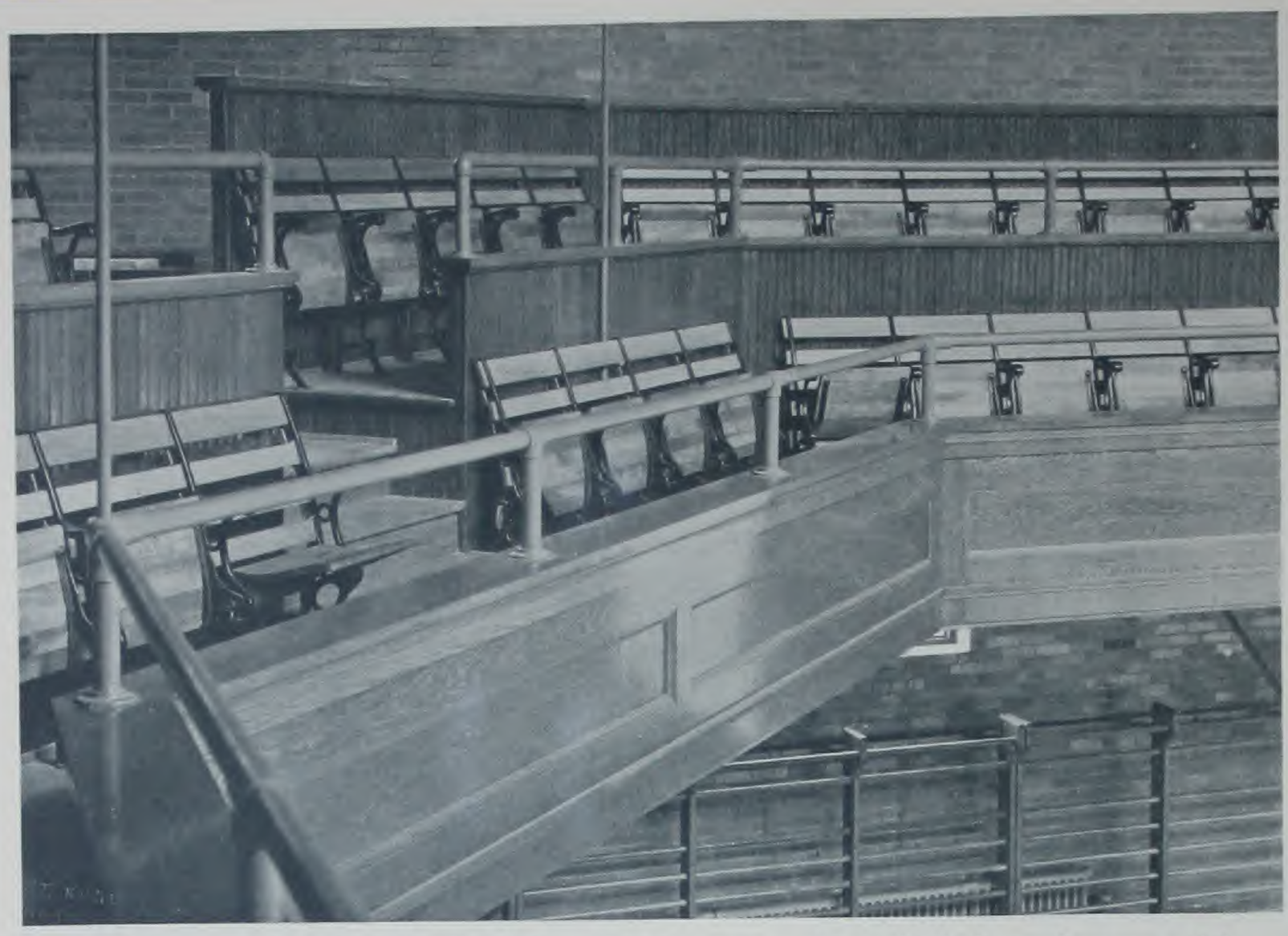


BRASS CHOIR RAIL, *Calvary Evangelical Lutheran Church, Toledo, Ohio. Architect, C. C. Britsch, Toledo, Ohio. Contractor, The Fred Rinker Co., Toledo, Ohio.*

MARQUISE, *Swiss Hall, Toledo, Ohio. Architect, Harry W. Wachter, Toledo, Ohio. Contractor, The Watts & Suhrbier Co., Toledo.*

WIRE GUARDS, *Burnham High School, Sylvania, Ohio. Architect, T. D. McLaughlin and Associates, Lima, Ohio. Contractor, Holloway & Berkebile, Delta, Ohio.*

WIRE GUARDS (note openings for sash operators), *Toledo Club, Toledo, Ohio. Architect, Mills, Rhines, Bellman & Nordhoff, Toledo, Ohio. Contractors, The H. J. Spieker Co., Toledo, Ohio.*

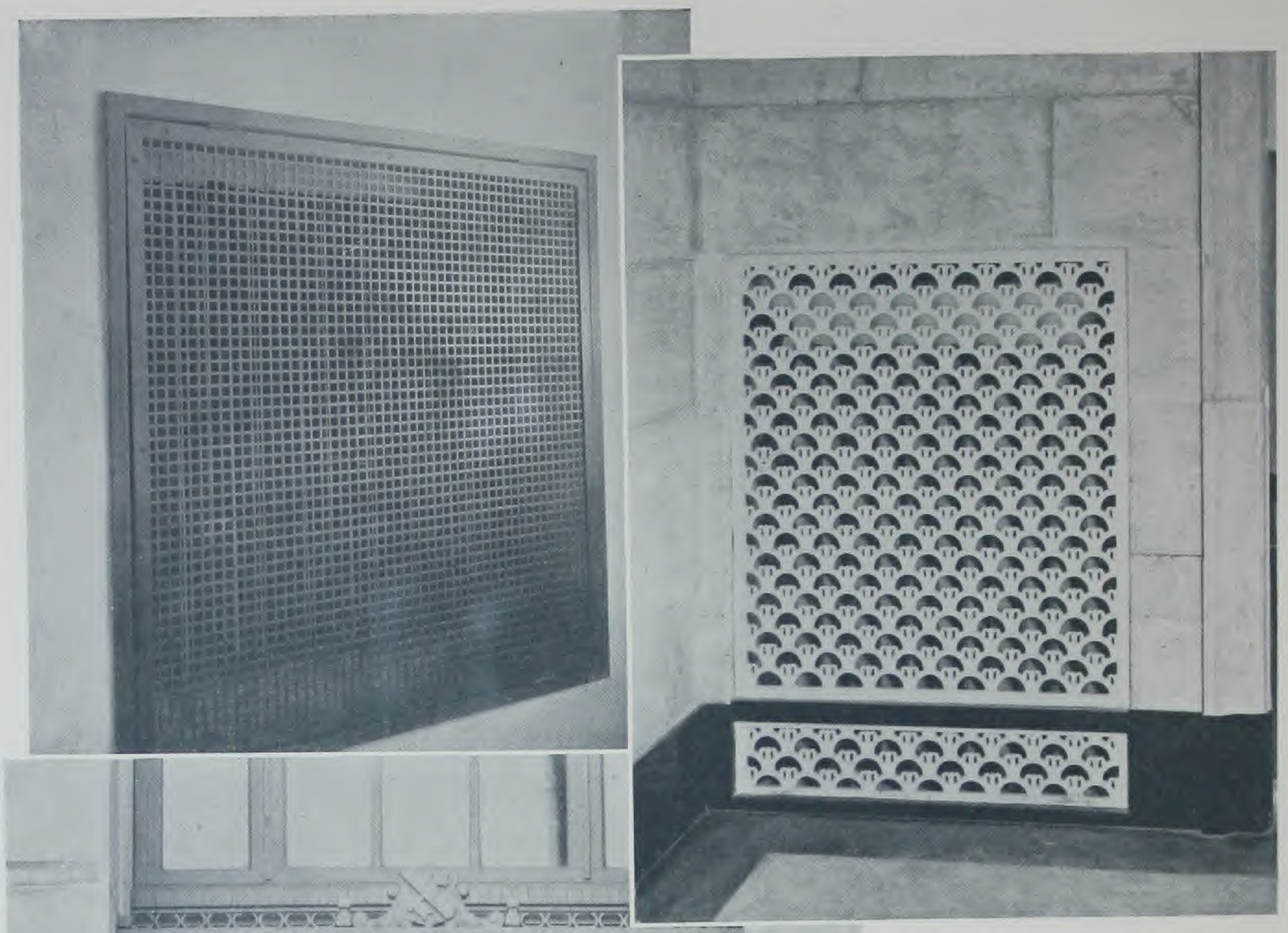


An Unusual Pipe Rail. (Note that the pipe rail encloses the balcony hanger rod.) *Newark Gymnasium, Newark, Ohio. Architect, Vernon Redding and Associates, Mansfield, Ohio. Contractor, O. J. Hawkins & Sons, Newark, Ohio.*

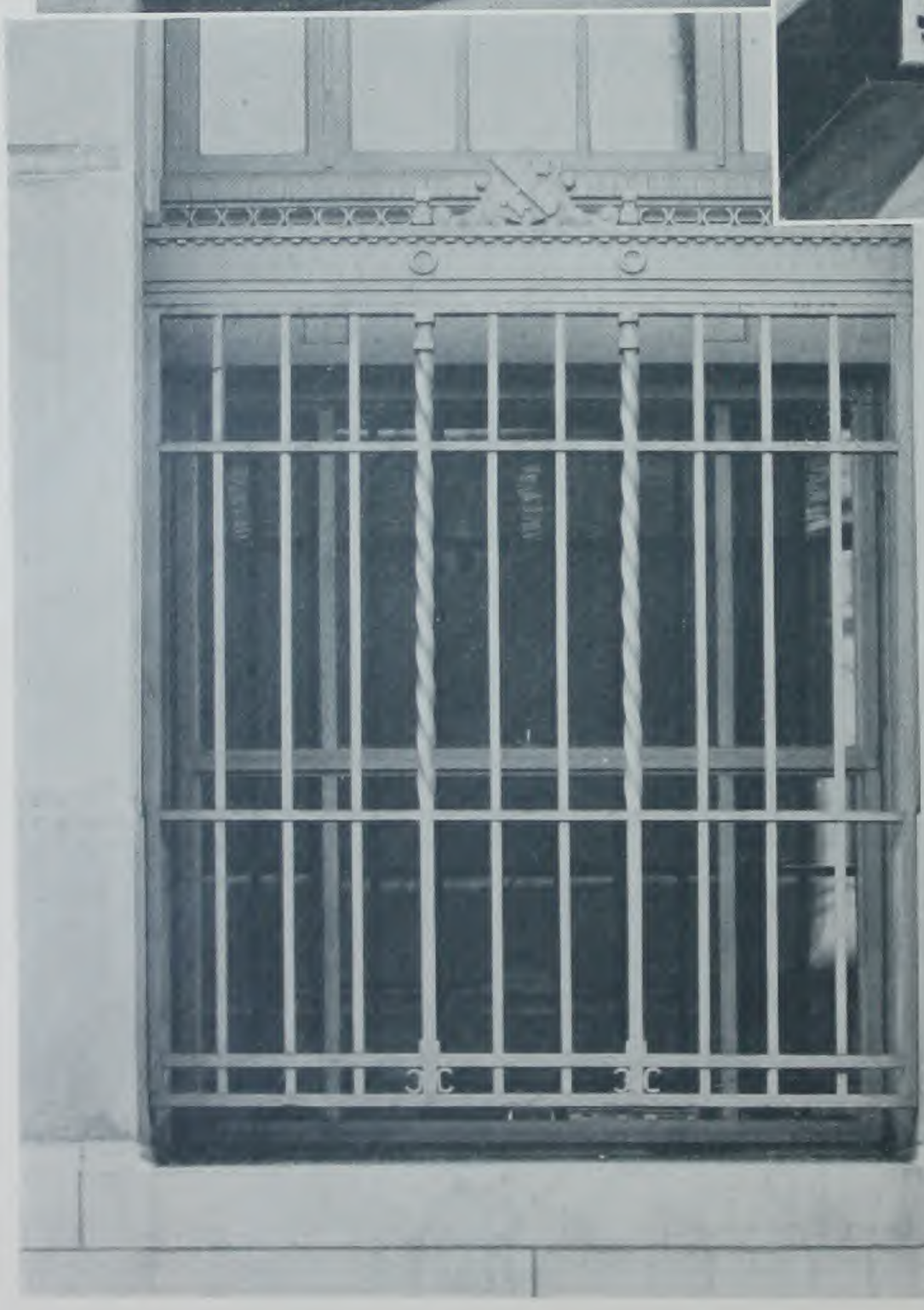
Pipe Rail, *Newark Gymnasium, Newark, Ohio. Architect, Vernon Redding and Associates, Mansfield, Ohio. Contractor, O. J. Hawkins & Sons, Newark, Ohio.*

BALCONY RAIL, *Aquinas College, Columbus, Ohio. Architect, Fred E. Gilson, Columbus, Ohio. Contractor, Frank A. O'Hare Co., Inc., Chicago, Ill.*

CLOSE-UP OF BALCONY RAIL, *Aquinas College, Columbus, Ohio. Architect, Fred E. Gilson, Columbus, Ohio. Contractor, Frank A. O'Hare Co., Inc., Chicago, Ill.*



PERFORATED STEEL GRILLE, *Burnham High School, Sylvania, Ohio. Architect, T. D. McLaughlin and Associates, Lima, Ohio. Contractor, Holloway & Berkebile, Delta, Ohio.*



CAST IRON GRILLE, *Fort Meigs Hotel, Toledo, Ohio. Architect, Sidney E. Aftel, Toledo, Ohio. Contractor, The A. Bentley & Sons Co., Toledo, Ohio.*

WROUGHT IRON GRILLE, *Security Savings Bank, Toledo, Ohio. Architect, Langdon, Hohly & Gram, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

FIRE ESCAPE, OHIO STATE TYPE D, *Commercial Bank and Trust Co., Bowling Green, Ohio. Architect, Simons, Brittain & English, Pittsburgh, Pa. Contractor, Leo Herman, Edgerton, Ohio.*

FIRE ESCAPE, OHIO STATE TYPE B, *Anderson Brothers Department Store, Portsmouth, Ohio. Architect, De-Voss & Donaldson, Portsmouth, Ohio. Contractors, The Anderson Brothers Co., Portsmouth, Ohio.*

FIRE ESCAPE, OHIO STATE TYPE A, *Ringold Baer Realty Co., Toledo, Ohio. Architect, Jokel & Lange, Toledo, Ohio. Contractor, The H. J. Spieker Co., Toledo, Ohio.*

ORNAMENTAL IRON WORK

FLAG POLE, *Daehler Funeral Home, Portsmouth, Ohio. Architect, DeVoss & Donaldson, Portsmouth, Ohio. Contractor, Taylor & Linn, Portsmouth, Ohio.*

AREA GRATING, *Municipal Garage, Toledo, Ohio. Architect, Langdon Hobly & Gram, Toledo, Ohio. Contractor, The Watts & Suhrbier Co., Toledo, Ohio.*

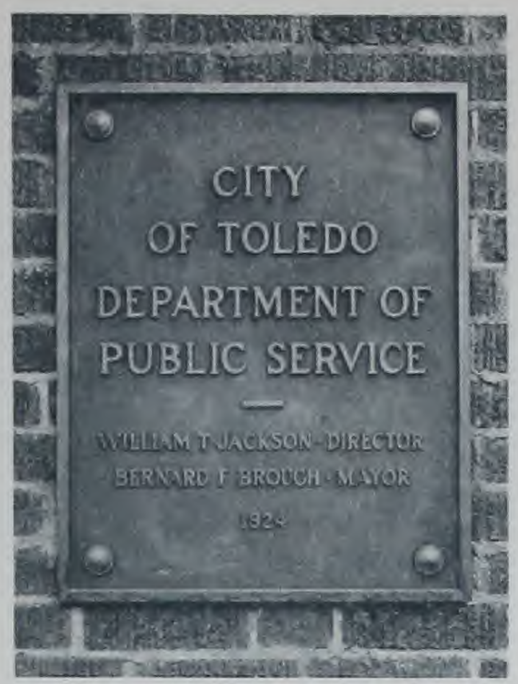
STANDARD OHIO MOVING PICTURE BOOTH EQUIPMENT, *Burnham High School, Sylvania, Ohio. Architect, T. D. McLaughlin and Associates, Lima, Ohio. Contractor, Holloway & Berkebile, Delta, Ohio.*

PIPE RAILS, *Monroe St. M. E. Church, Toledo, Ohio. Architect Harry W. Wachter, Toledo, Ohio. Contractor, The John Pioch Co., Toledo, Ohio.*

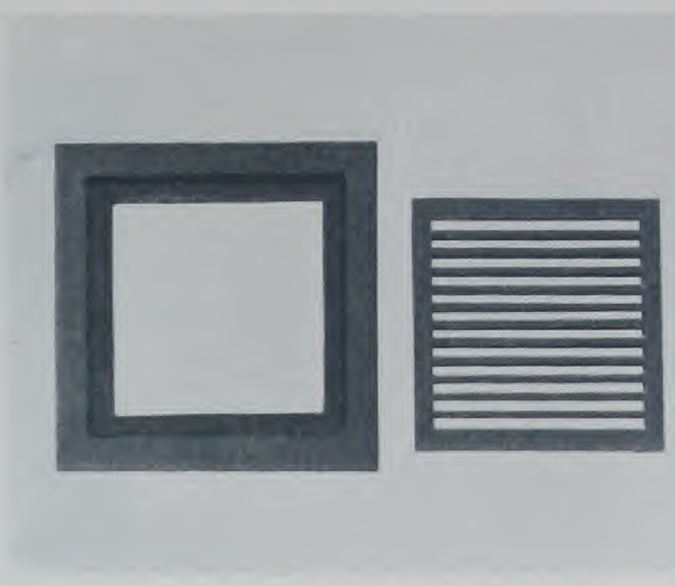
MASSIVE TYPE OF WHEEL GUARD, *The Ohio Power Co., Lima, Ohio. Architect, P. M. Hulsken, Lima, Ohio. Contractor, The Lima Construction Co., Lima, Ohio.*

THE BUILDING PRODUCTS CO.

MANHOLE COVER



BRONZE TABLET

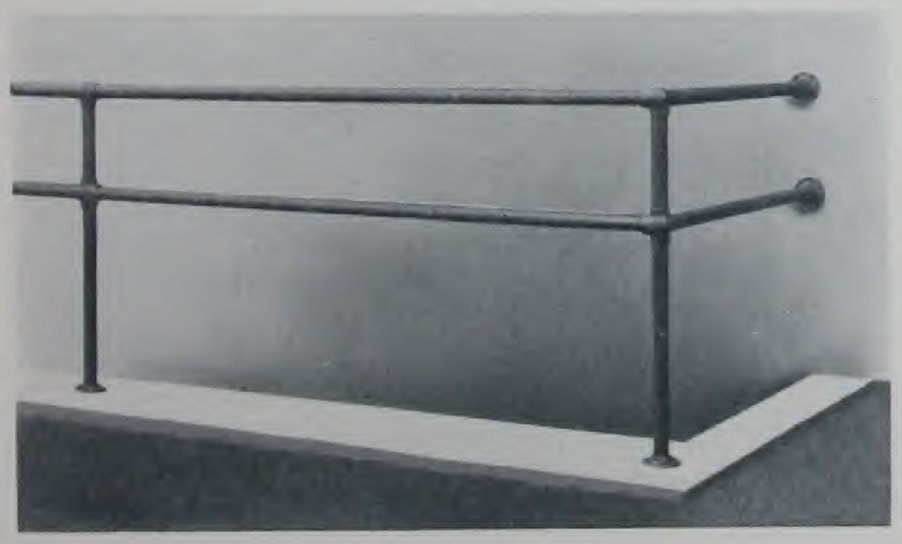


SUMP PIT FRAME AND COVER

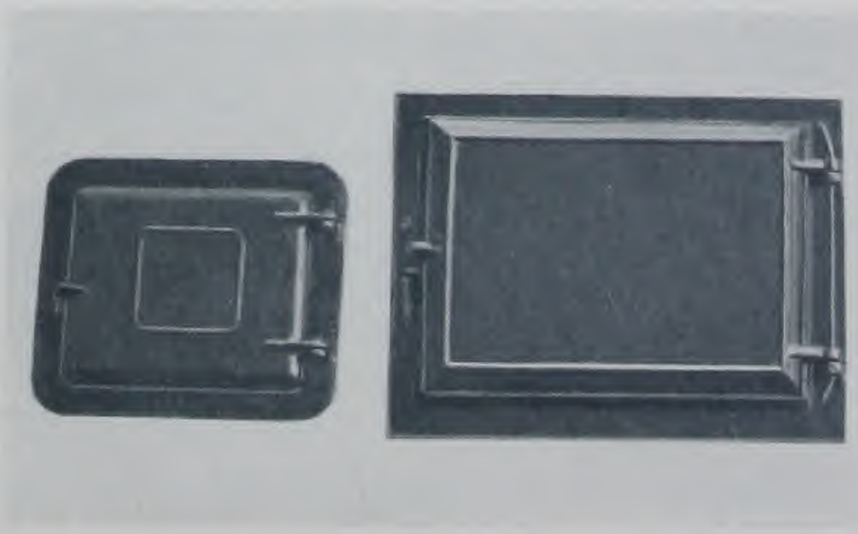
WHEEL GUARD

AREA GRATING

LADDER



PIPE RAIL



CLEAN-OUT DOORS
(Large and Small Sizes)

A Word about B-P Stair Construction

SHOP ASSEMBLY OF STAIRS

THE main feature of B-P stair construction is the sturdy manner in which the stairs are framed. This is clearly brought out in the drawing on the opposite page. No dependence is placed on the clinching or interlocking of thin sheet metal parts; all connections are securely drawn together with proper size bolts.

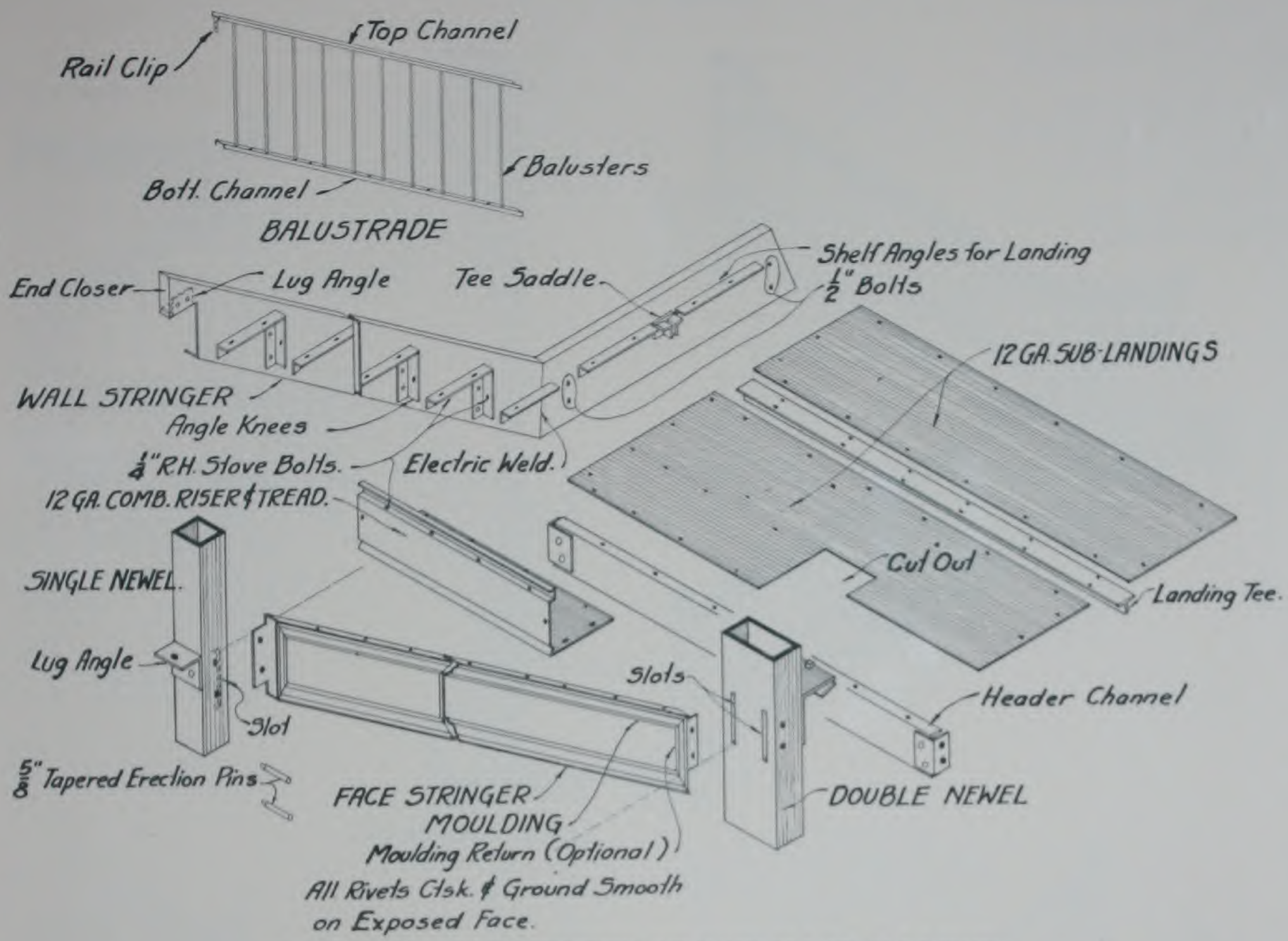
Coupled with this strength is the finished appearance of all framing. Note on the accompanying drawing the neat and strong connection of the face stringer to the newel post. The tapered pins draw the joint to a perfect fit.

The stringers are usually pressed steel channels to which 1¼" x 1¼" x 3/16" angle knees are fastened with three 5/16" rivets. These knees not only support each individual tread but provide a substantial backing for each riser. The face stringers are moulded and paneled as may be required.

The combination risers and treads of No. 12 gauge metal are securely bolted to these angle knees with three ¼" bolts at each end. The plates for the sub-landings are reinforced wherever necessary with structural steel tee-irons, supported by the convenient tee-saddles which we devised for this purpose.

The newel posts are supported by lug angles from the structural steel or concrete framing, and the arrangement of this detail permits us to erect stairs when the structural frame is going up. Advantage is frequently taken of this possibility, which does away with measuring well holes, and also provides a service stair during construction.

The photograph above illustrates what we mean by fitting a flight of stairs together complete in the shop before shipping. This eliminates any possibility of errors and avoids annoying and costly delays in the field.



THIS CUT SHOWS THE CONSTRUCTION AND NAMES OF PARTS OF B-P STAIRS

Architects' Specification

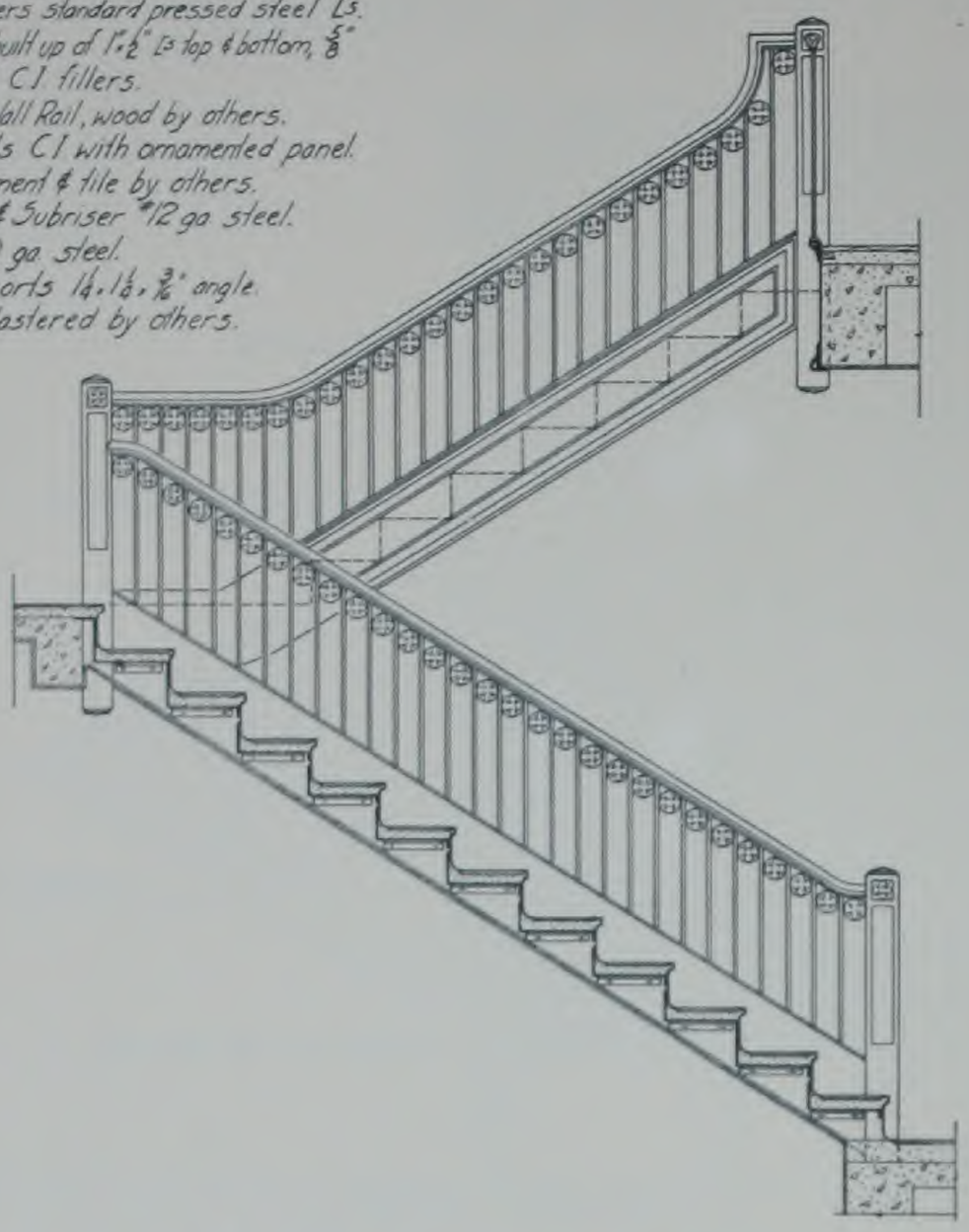
ALL stairs, unless noted otherwise, are to be of pressed steel construction similar in all respects to those manufactured by the Building Products Company of Toledo, Ohio. Combination risers and treads of No. 12 gauge steel to be securely bolted to angle knees riveted to pressed steel stringers. Angle knees must form a back for the risers. Sub-landings to be of No. 12 gauge plate adequately stiffened with structural steel tees. Face stringers to be paneled and moulded as shown. Newels, railings and balustrade to be of design and construction as shown on the plans.

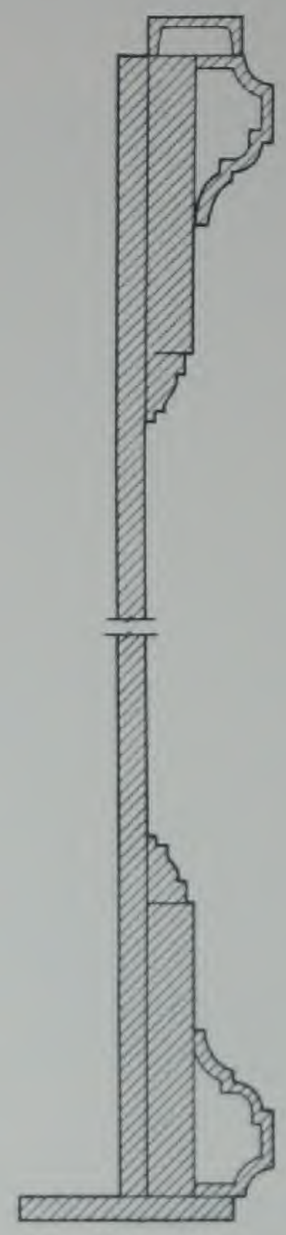
ORNAMENTAL IRON WORK

DESIGN NO 1

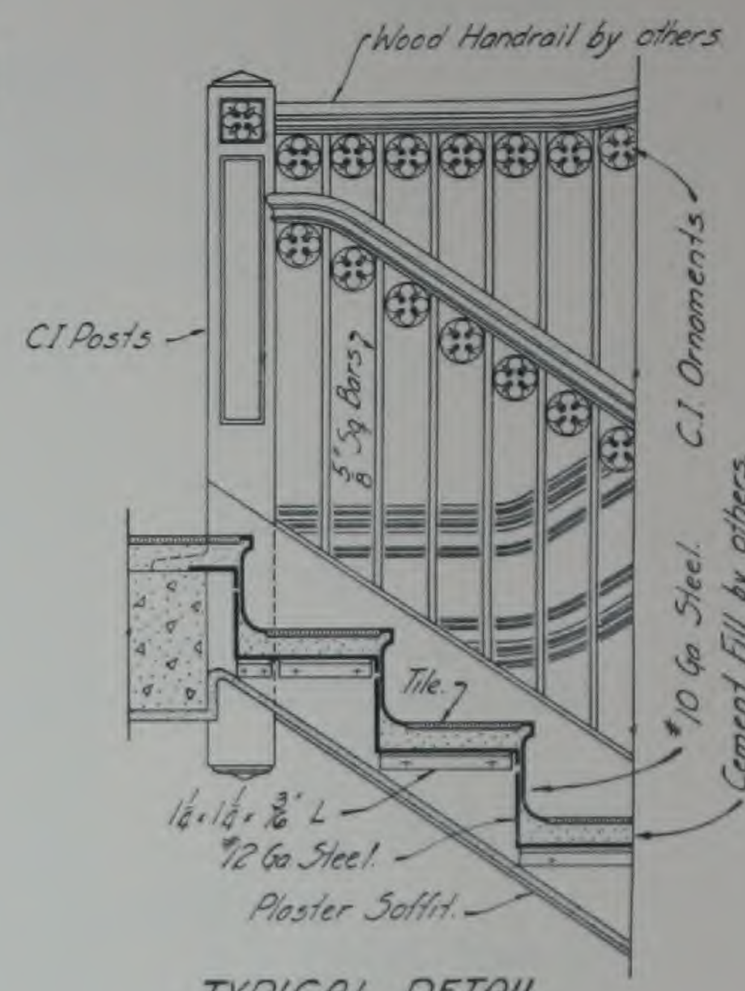
SPECIFICATION

Face Stringers built up of 3/16" U.M.P. bars & Braun mouldings.
Wall Stringers standard pressed steel Cs.
Balustrade built up of 1"-1/2" Cs top & bottom, 5/8" sq bars & C.I. fillers.
Handrail & Wall Rail, wood by others.
Newel Posts C.I. with ornamented panel.
Treads cement & tile by others.
Subtread & Subriser #12 ga. steel.
Riser #10 ga. steel.
Knee supports 1/4. 1-1/2, 3/16" angle.
Soffits plastered by others.

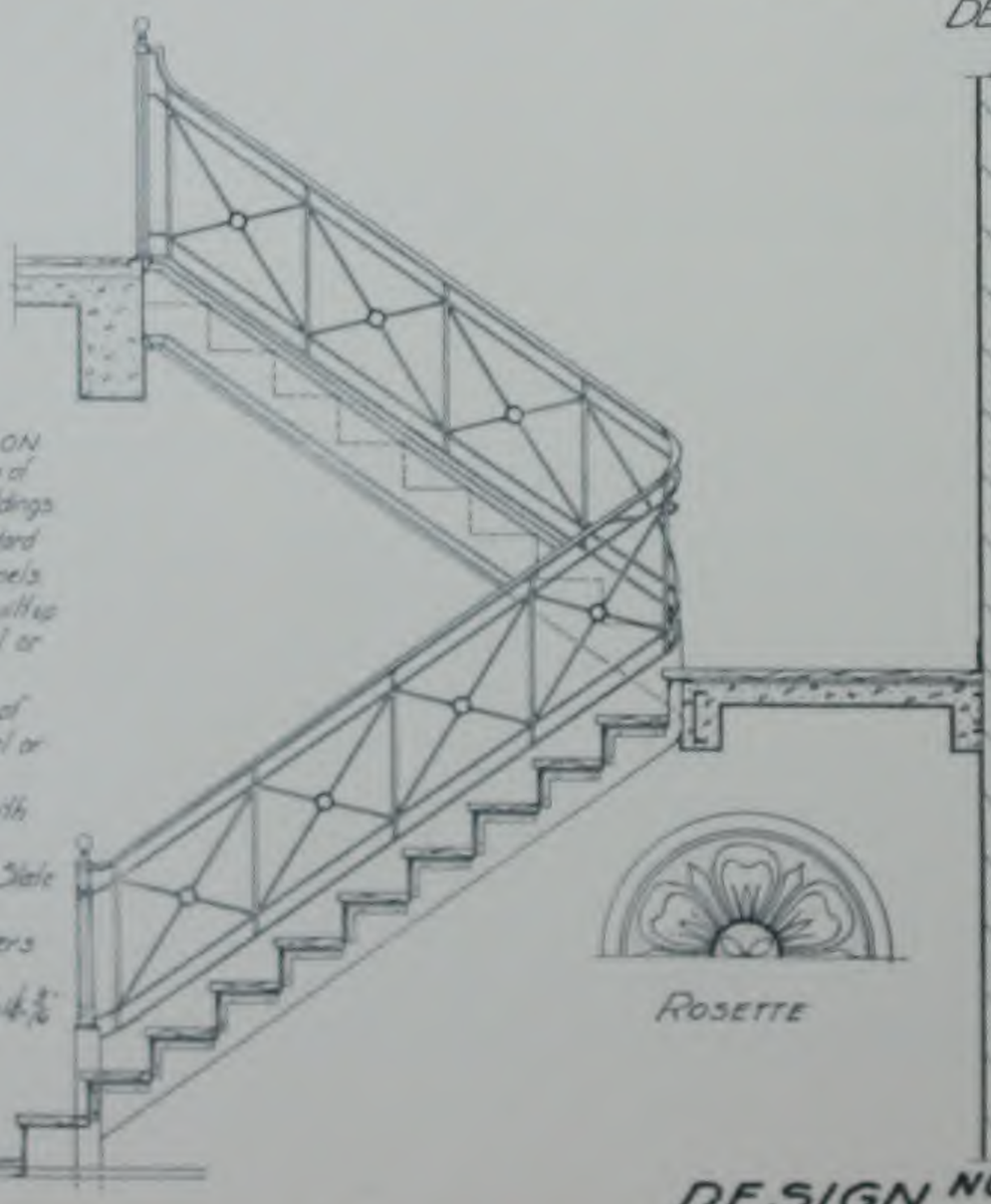




DETAIL OF STRINGER



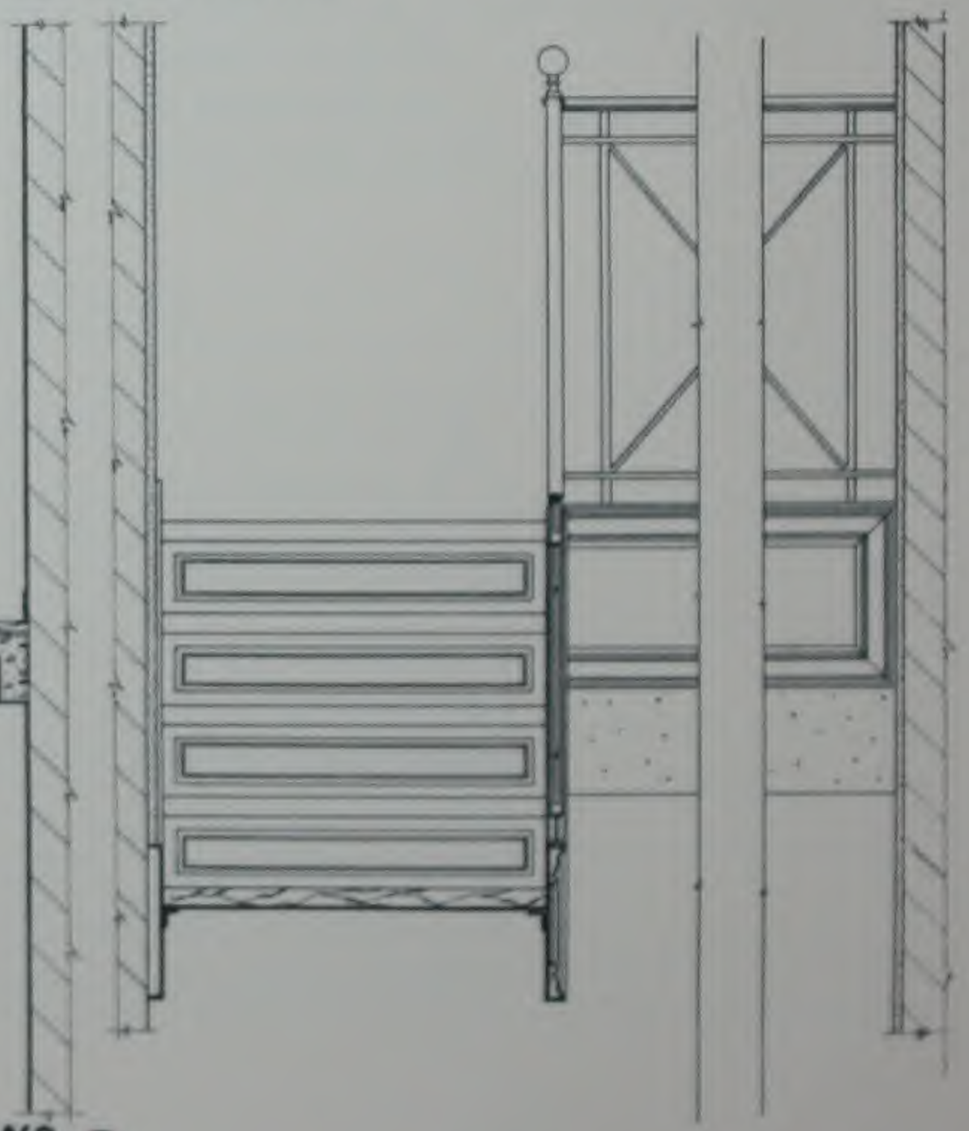
TYPICAL DETAIL



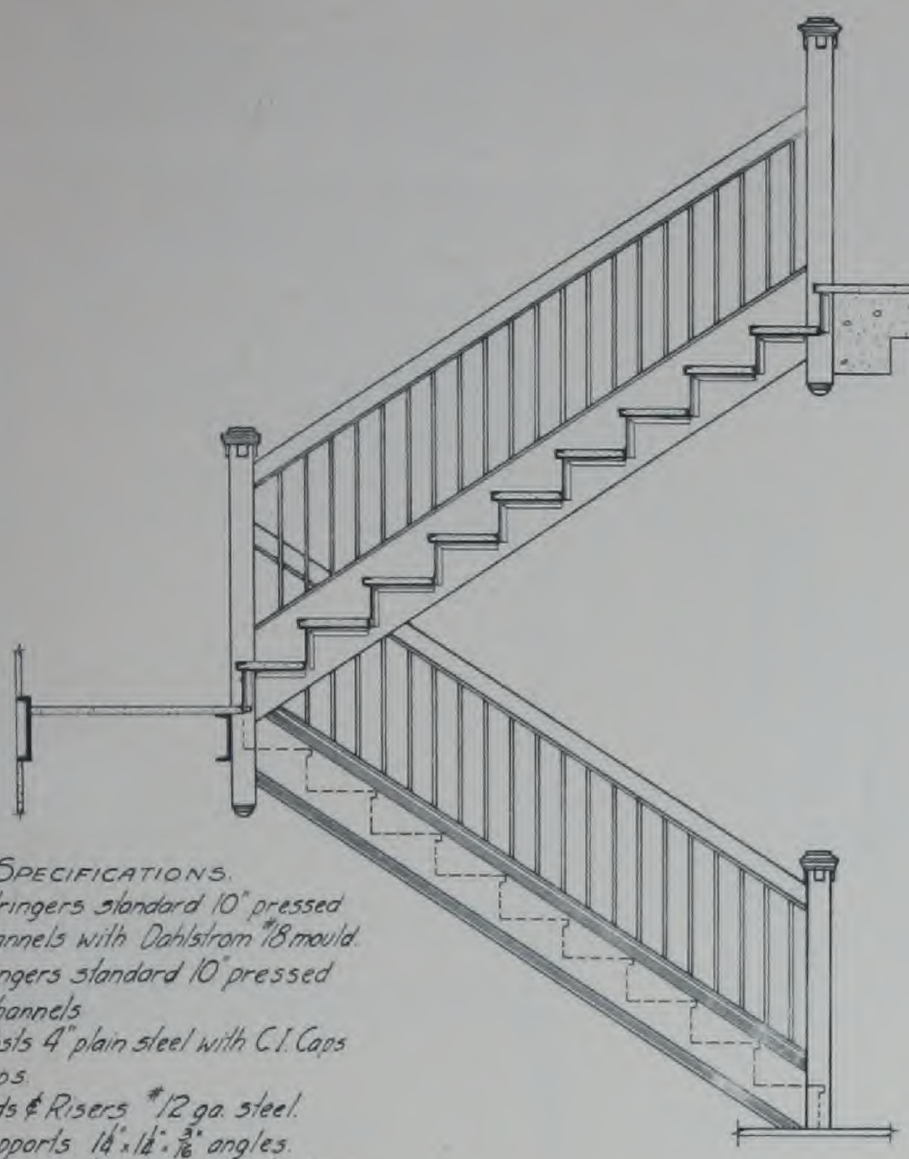
SPECIFICATION

Face Stringers built up of 3/16" U.M.P. & Braun mouldings
Wall Stringers standard pressed steel channels
Balustrade Panels built up of steel bars with C.I. or W.I. rosettes
Handrails made up of steel moulded steel or brass sections
Newel Posts C.I. with brass ball finials
Treads Marble or Slate by others
Subtreads & Risers #10 ga. steel
Knee Supports 2-4-3/8" angles

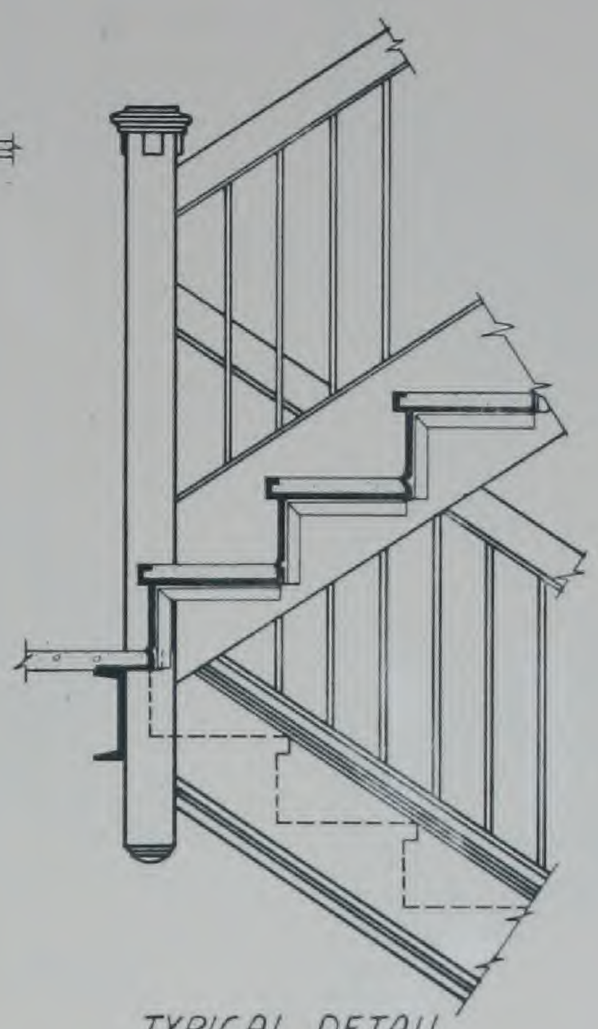
ROSETTE



DESIGN NO 2



SPECIFICATIONS.
Face Stringers standard 10" pressed steel channels with Dahlstrom #18 mould.
Wall Stringers standard 10" pressed steel channels
Newel Posts 4" plain steel with C.I. Caps and Drops.
Subtreads & Risers #12 ga. steel.
Knee Supports 1¼"x1¼"x⅜" angles.
Balustrade 1"x½" channels top & bottom and ⅝" sq. bars 4" o.c.
Handrail of wood by others.
Wallrail of wood by others.
Treadfill cement by others.



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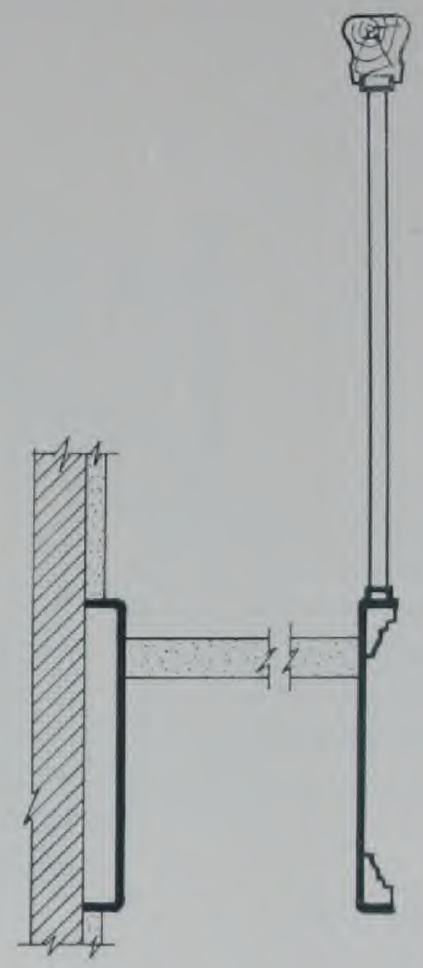

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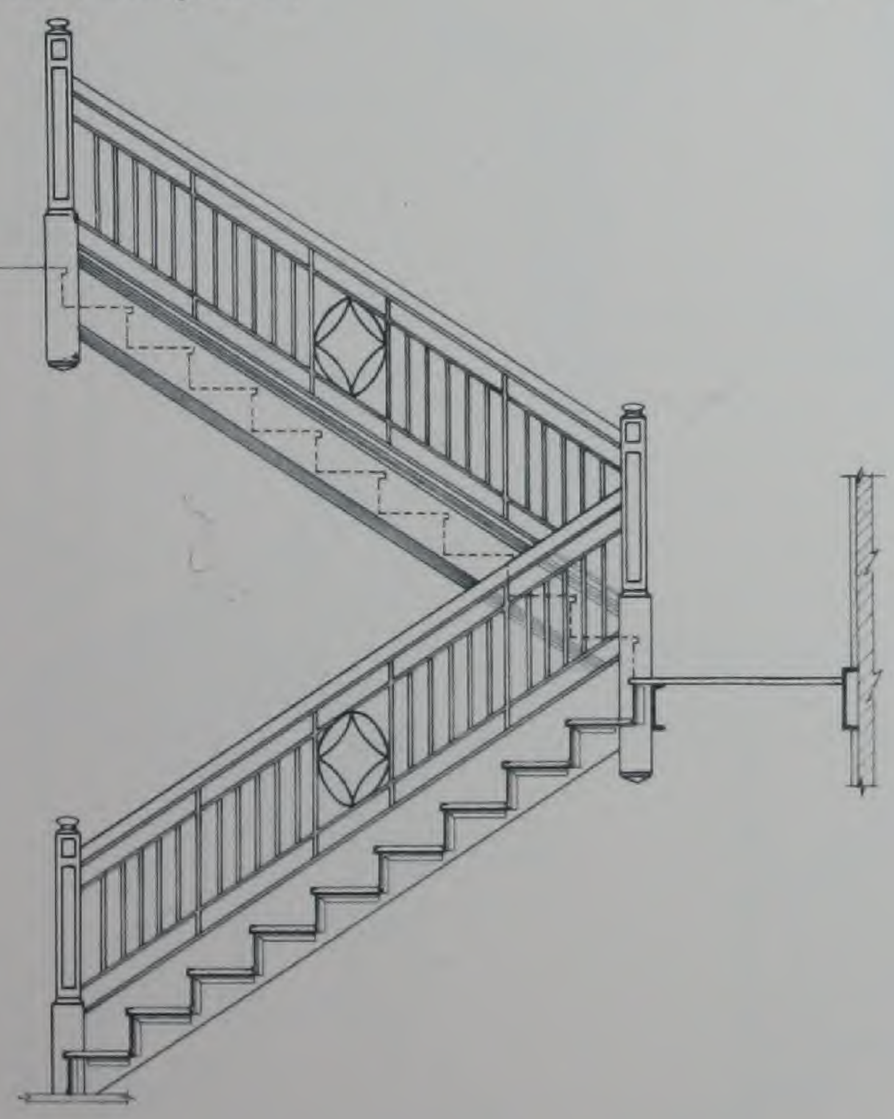
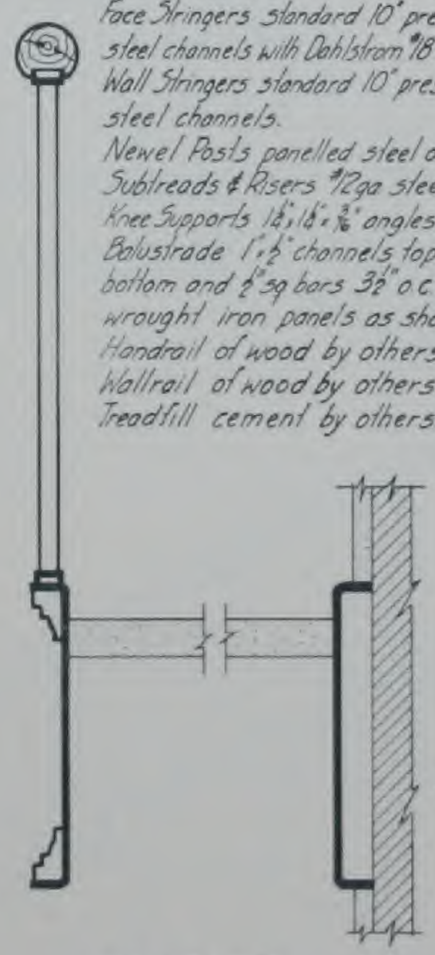
DESIGN NO 3



SPECIFICATIONS.
Face Stringers standard 10" pressed steel channels with Dahlstrom #18 mould.
Wall Stringers standard 10" pressed steel channels.
Newel Posts panelled steel or C.I.
Subtreads & Risers #12ga steel.
Knee Supports 1¼"x1¼"x⅜" angles.
Balustrade 1"x½" channels top and bottom and ⅝" sq bars 3½" o.c. with wrought iron panels as shown.
Handrail of wood by others.
Wallrail of wood by others.
Treadfill cement by others.



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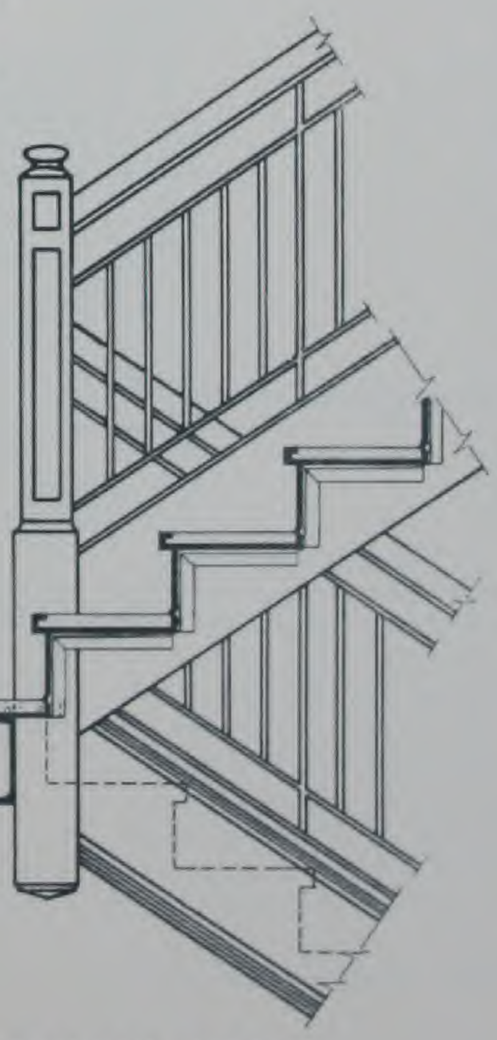
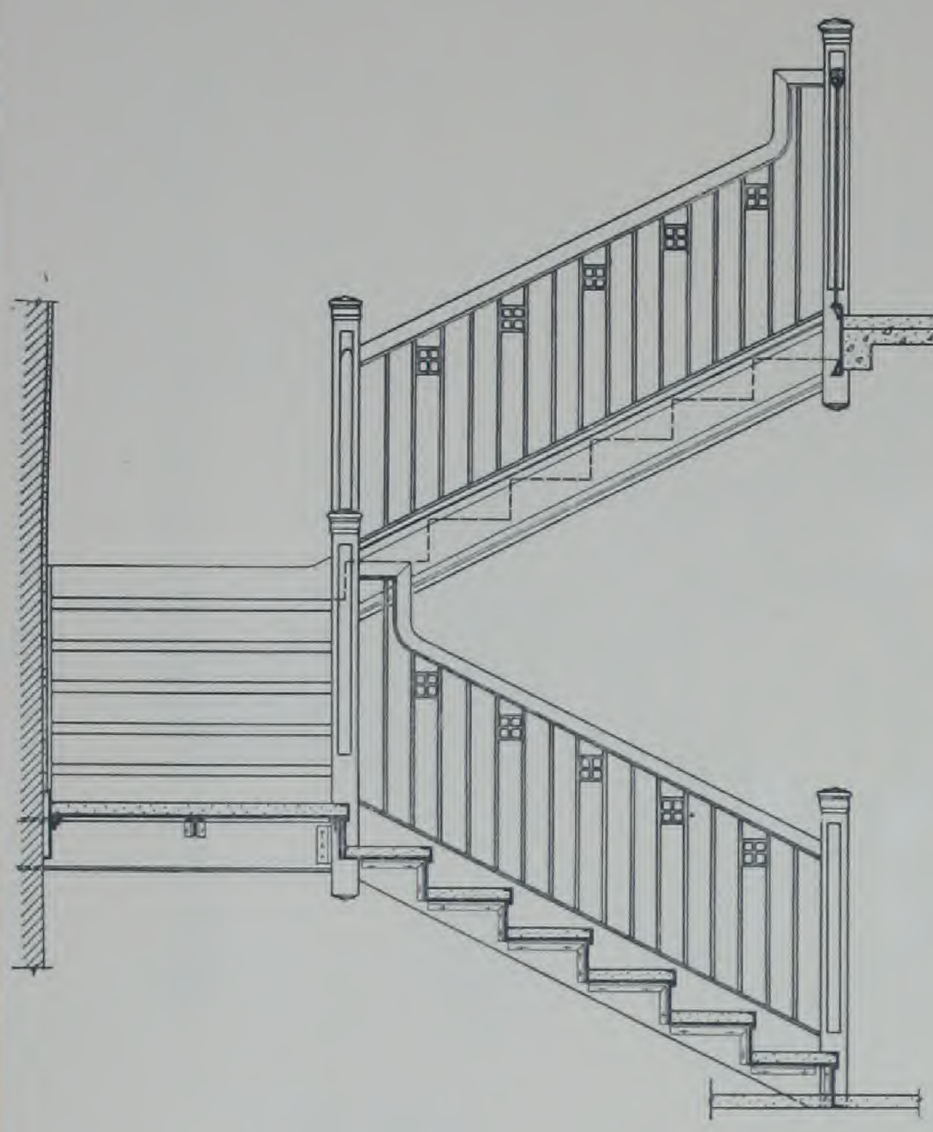
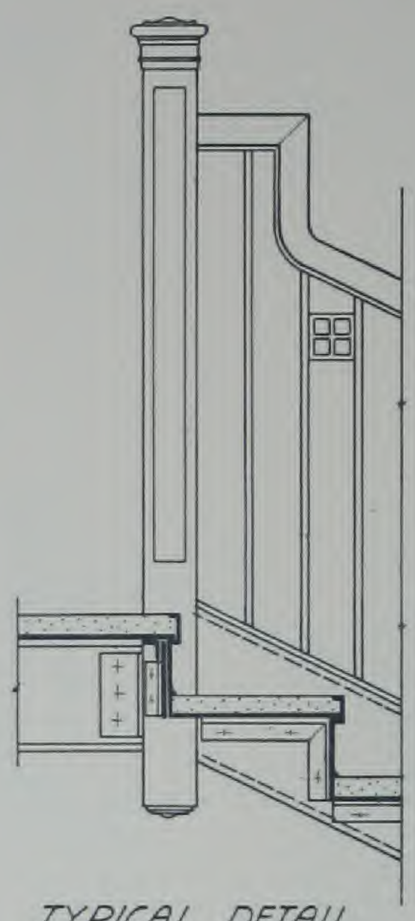


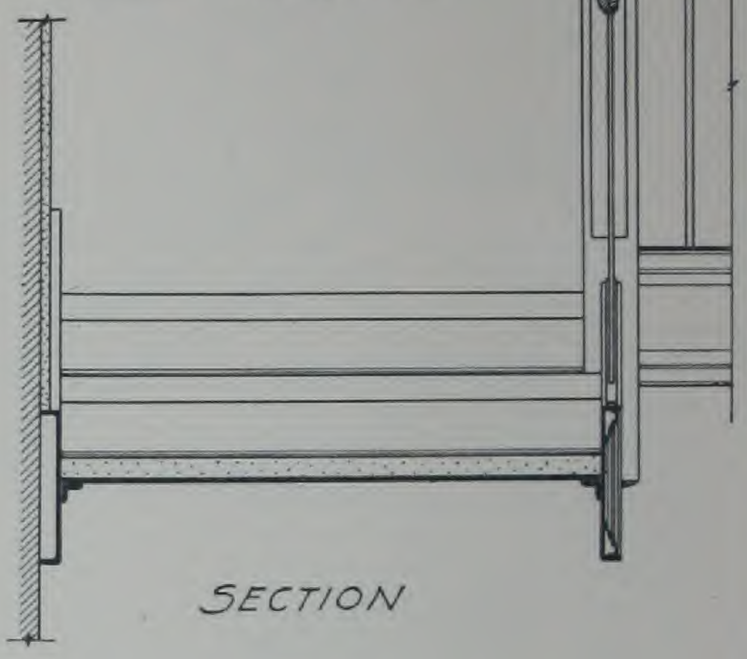
TYPICAL DETAIL

DESIGN NO 4

ORNAMENTAL IRON WORK





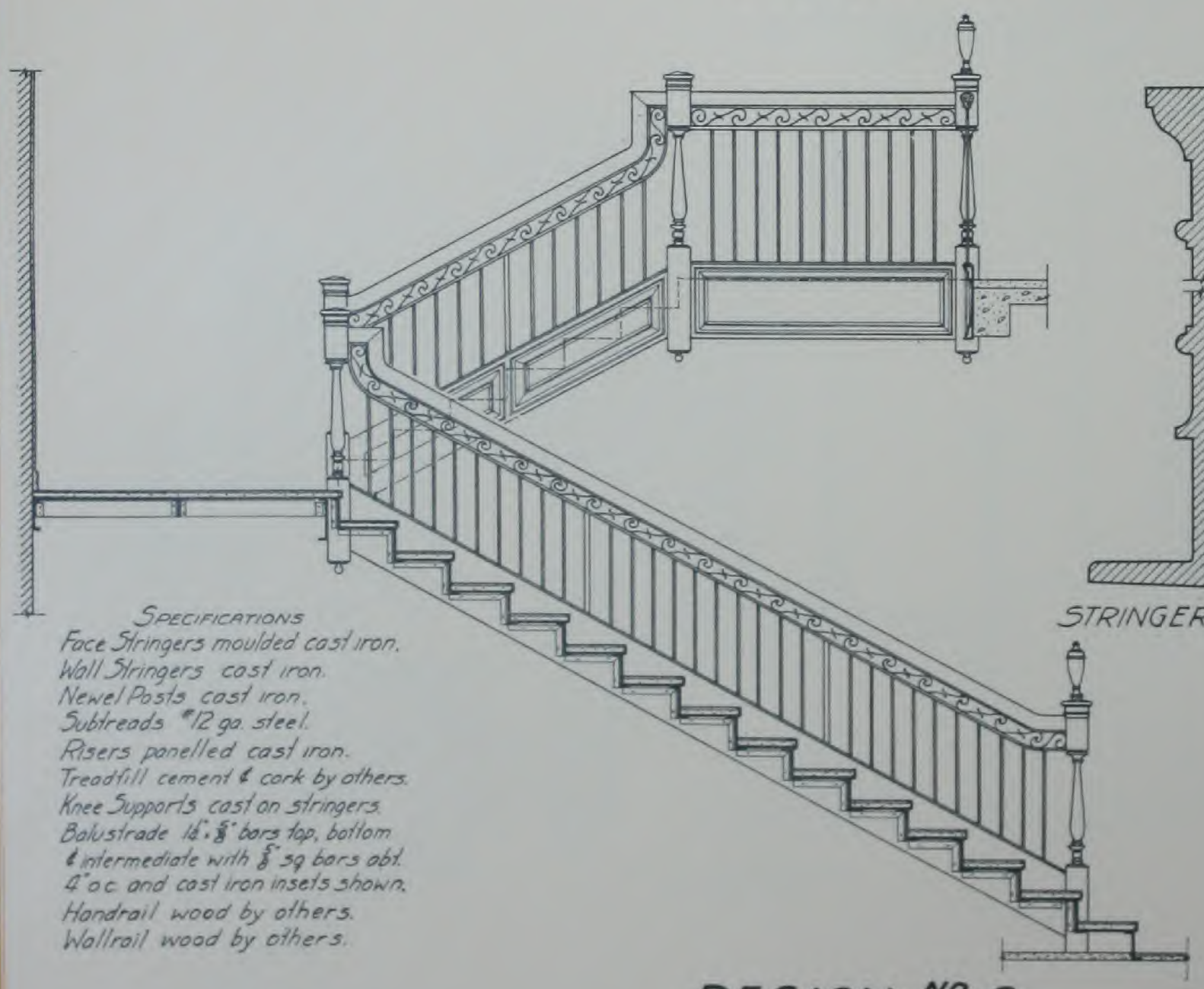


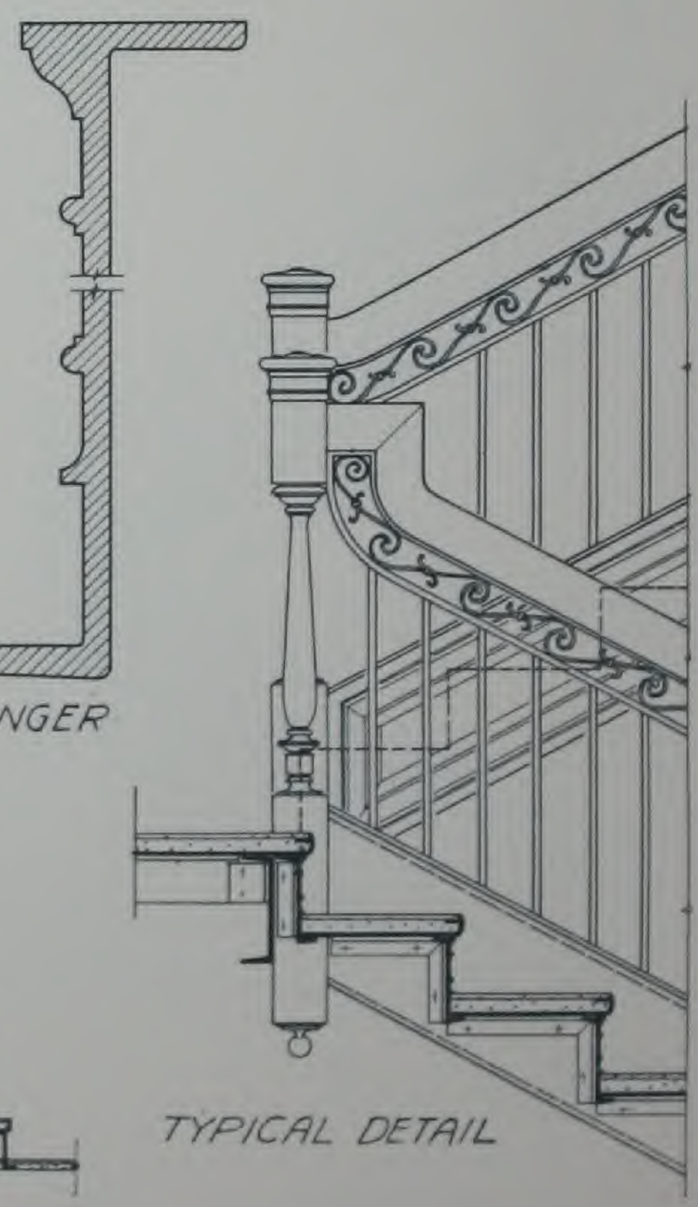
SPECIFICATIONS
Face Stringers standard 10" pressed steel channels with Dahlstrom #18 steel mouldings.
Wall Stringers standard 10" pressed steel channels.
Newel Posts 4" cast iron.
Subtreads & Risers #12 ga steel.
Treadfill cement by others.
Knee Supports 1¼ x 1¼ x ⅜" angles.
Balustrade 1" x ½" channels top & bottom ½" sq bars 4" oc. and cast iron insets as shown.
Handrail wood by others.
Wallrail wood by others.

TYPICAL DETAIL

SECTION

DESIGN NO 5





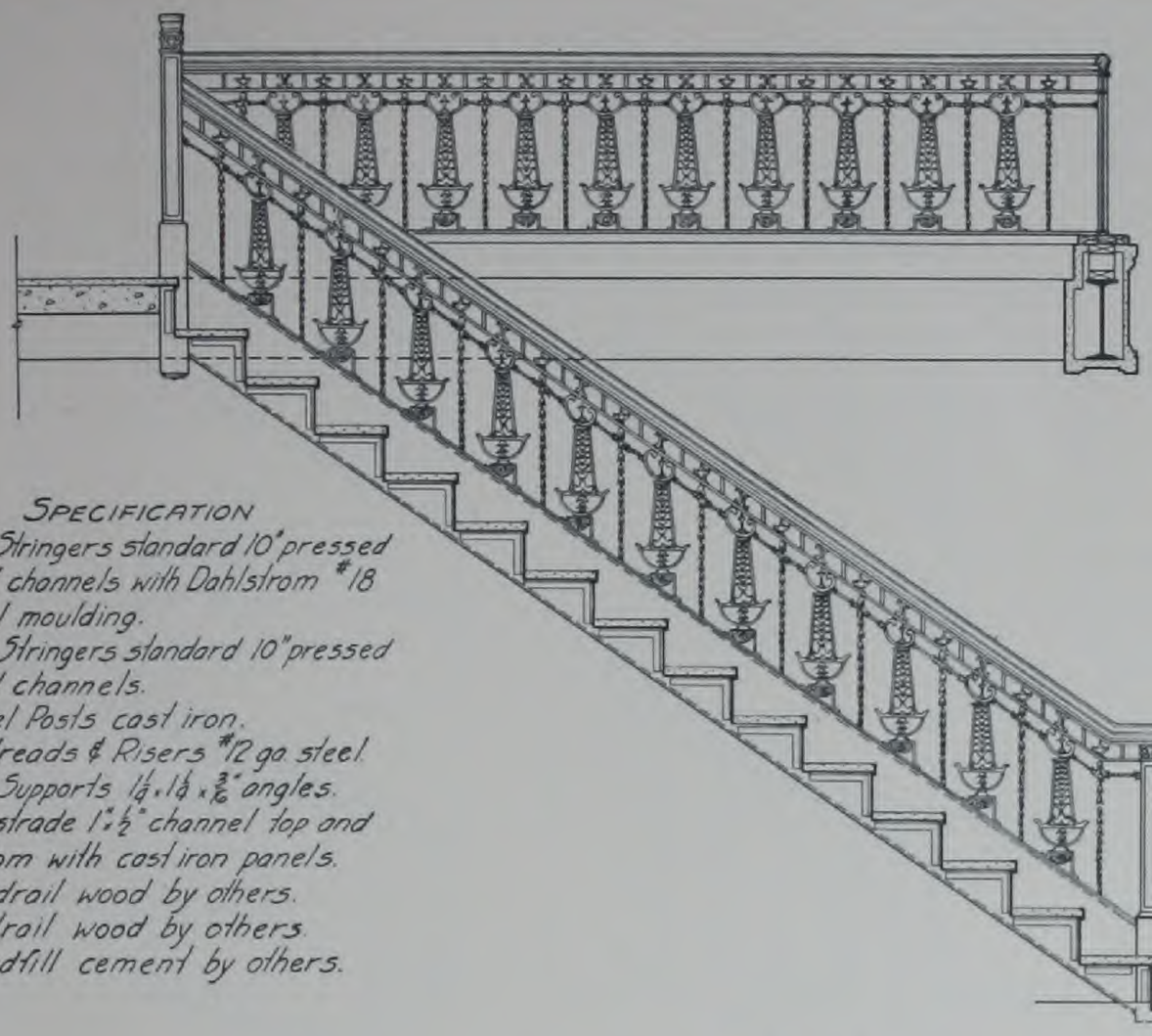
SPECIFICATIONS
Face Stringers moulded cast iron.
Wall Stringers cast iron.
Newel Posts cast iron.
Subtreads #12 ga. steel.
Risers panelled cast iron.
Treadfill cement & cork by others.
Knee Supports cast on stringers.
Balustrade 1½ x ⅝" bars top, bottom & intermediate with ⅝" sq bars abt. 4" oc and cast iron insets shown.
Handrail wood by others.
Wallrail wood by others.

STRINGER

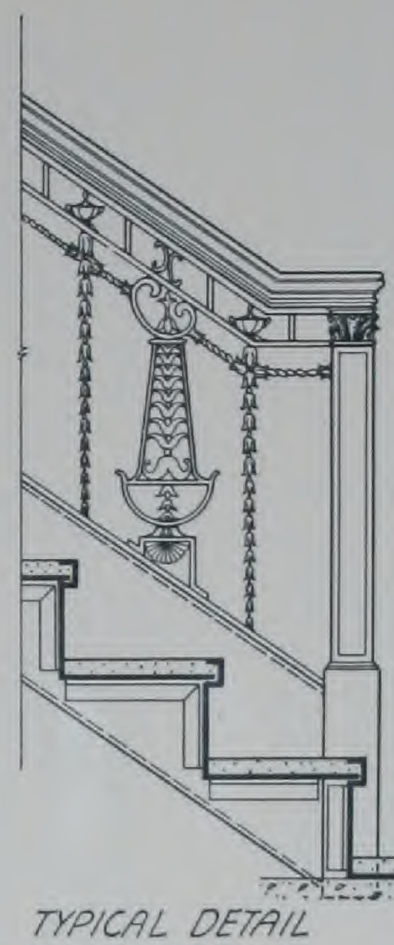
TYPICAL DETAIL

DESIGN NO 6

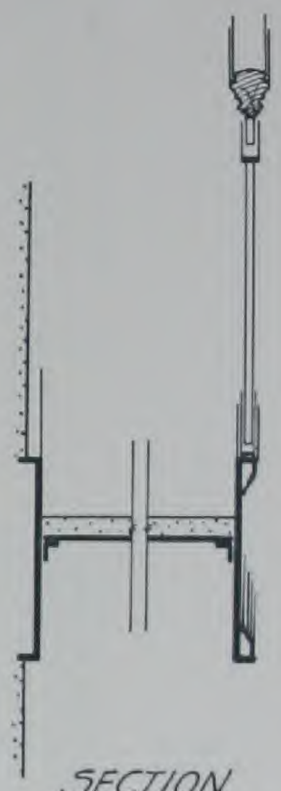
THE BUILDING PRODUCTS CO.



SPECIFICATION
Face Stringers standard 10" pressed steel channels with Dahlstrom #18 steel moulding.
Wall Stringers standard 10" pressed steel channels.
Newel Posts cast iron.
Subtreads & Risers #12 ga. steel.
Knee Supports 1¼ x 1¼ x 3/16 angles.
Balustrade 1" x ½" channel top and bottom with cast iron panels.
Handrail wood by others.
Wallrail wood by others.
Treadfill cement by others.

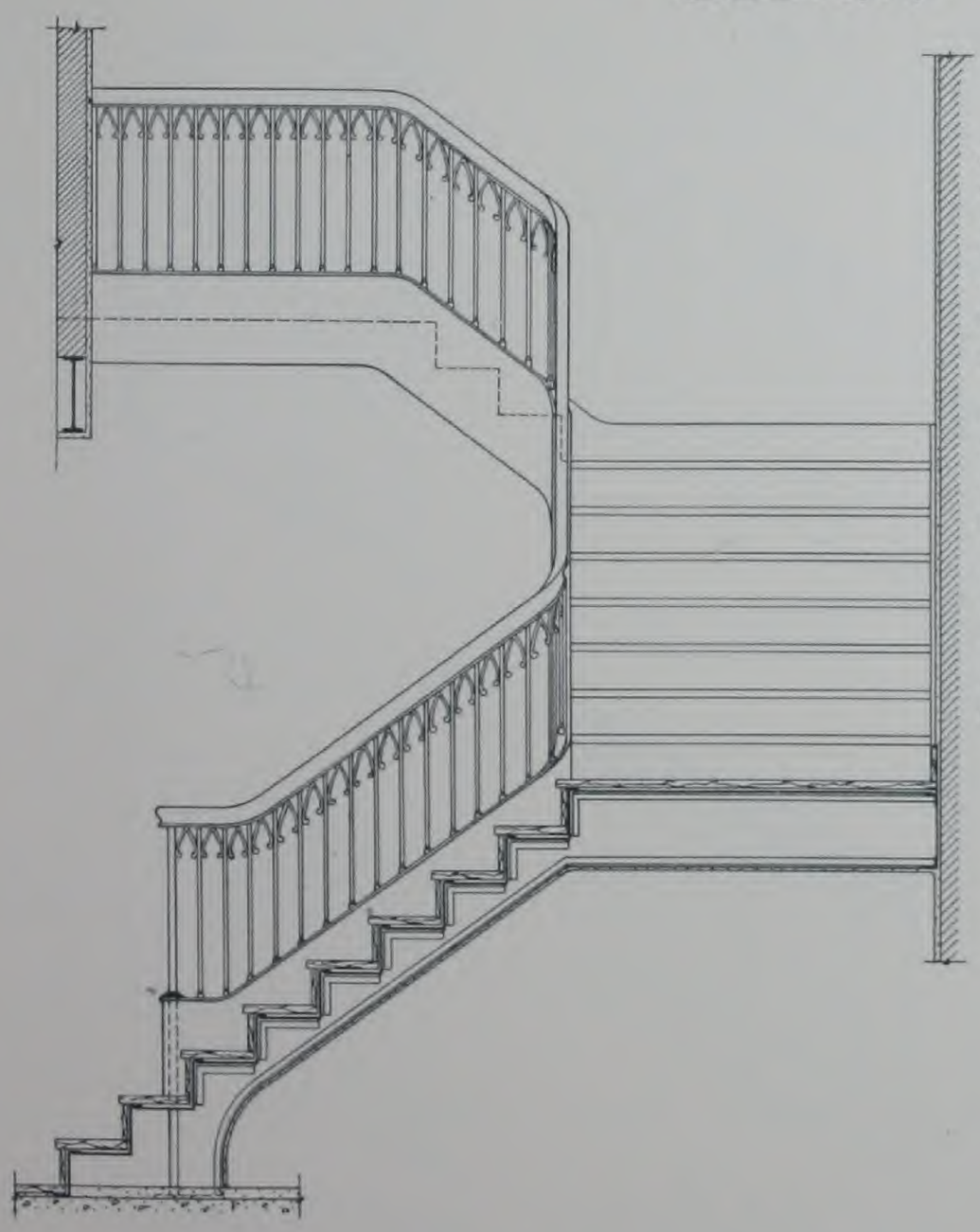


TYPICAL DETAIL



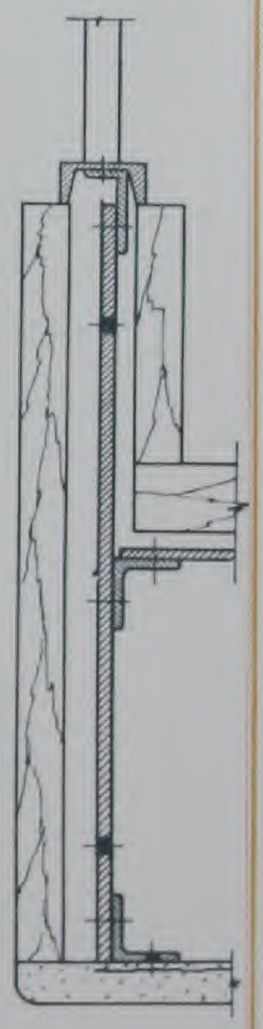
SECTION

DESIGN NO 7



SPECIFICATION
Face Stringers plates & angles with marble faces by others.
Wall Stringers plates & angles with marble faces by others.
Subtreads & Subrisers #12 ga steel.
Risers & Treads marble by others.
Knee Supports 1¼ x 1¼ x 3/16 angles.
Balustrade 1" x ½" channel top & bottom with ½" square bars abt 4" oc with c.i. bases & c.i. insets between bars as shown.
Handrail wood by others.
Wallrail wood by others.

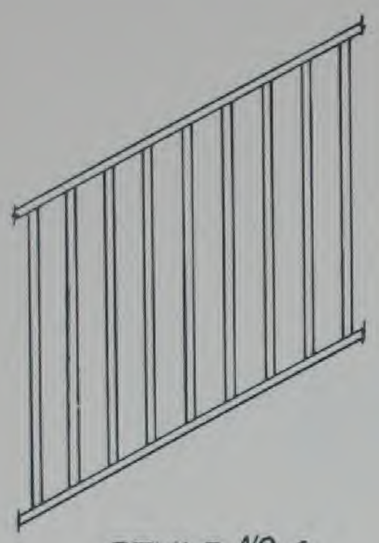
TYPICAL DETAIL



STRINGER DETAIL

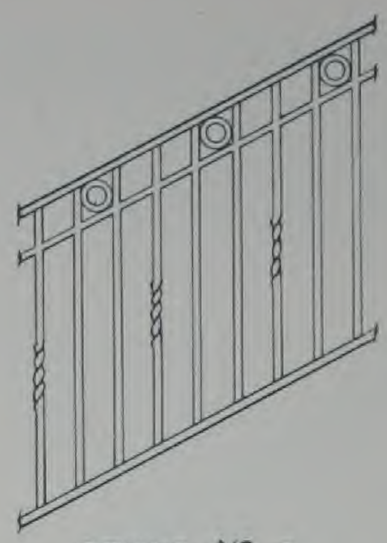
DESIGN NO 8

ORNAMENTAL IRON WORK

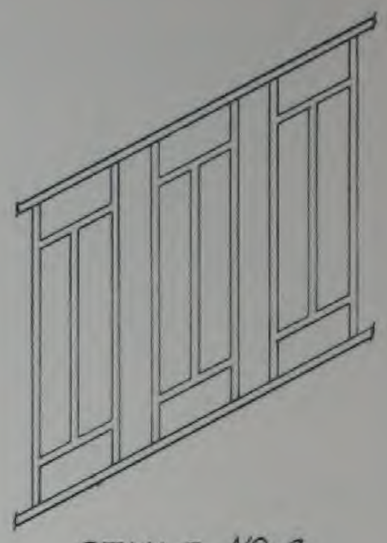


STYLE NO 1
Plain bars any desired size or spacing.

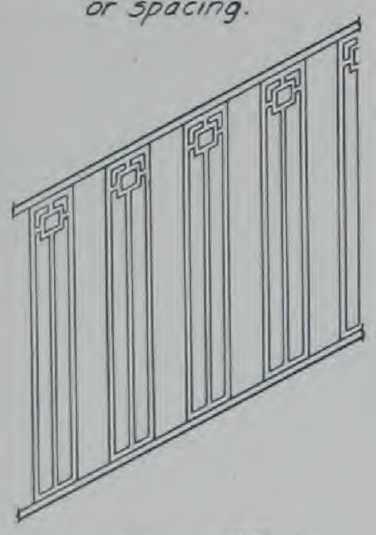
STYLE NO 2.
Square & twisted bars any size, spacing or arrangement.



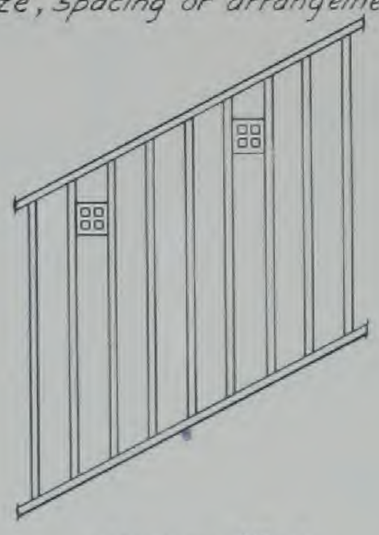
STYLE NO 3
Arrangement as shown any size or spacing of bars.



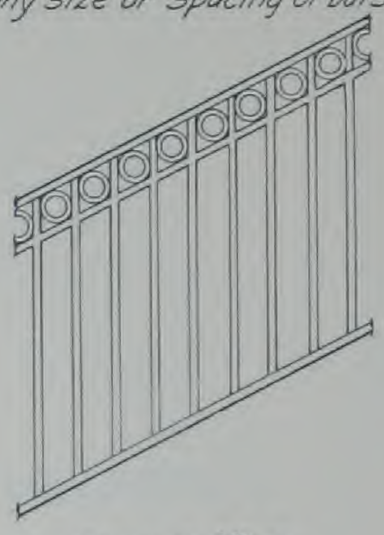
STYLE NO 4
Cast or wrought iron panels.



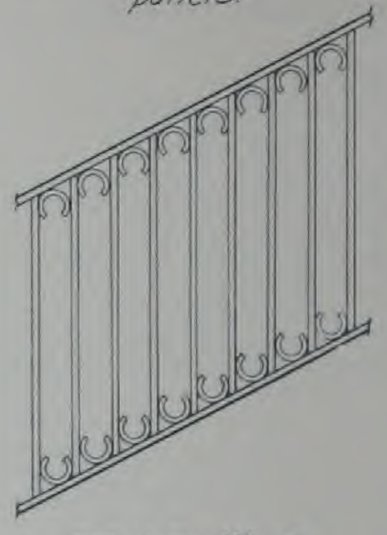
STYLE NO 5
Cast iron panels any spacing desired.



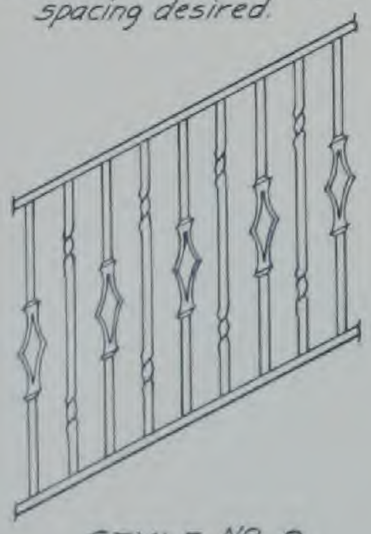
STYLE NO 6
Plain bars any size spaced 3½" apart with insets.



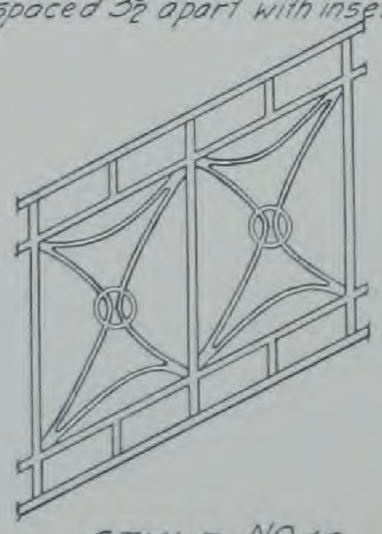
STYLE NO 7
Plain bars any size or spacing with w.i insets.



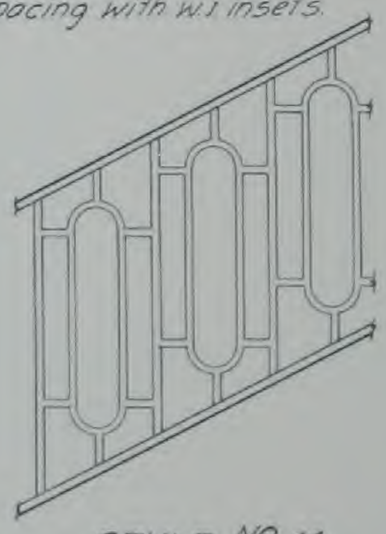
STYLE NO 8
Plain bars any size or spacing with w.i. insets.



STYLE NO 9
Twisted & split bars any size or spacing.



STYLE NO 10
Cast iron panels.



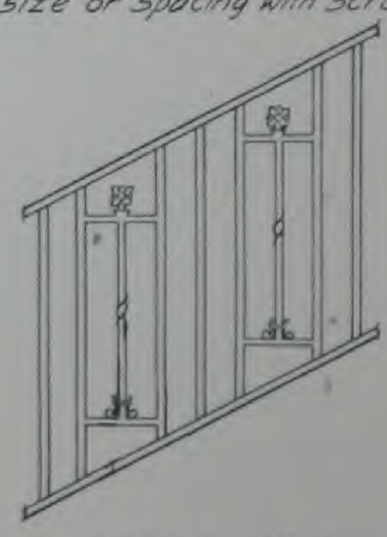
STYLE NO 11
Cast iron panels.

STYLE NO 12
Square & twisted bars any size or spacing with scrolls.

STYLE NO 13
Square & twisted bars any size or spacing with scrolls.

STYLE NO 14
Cast iron panels with wrought iron scrolls.

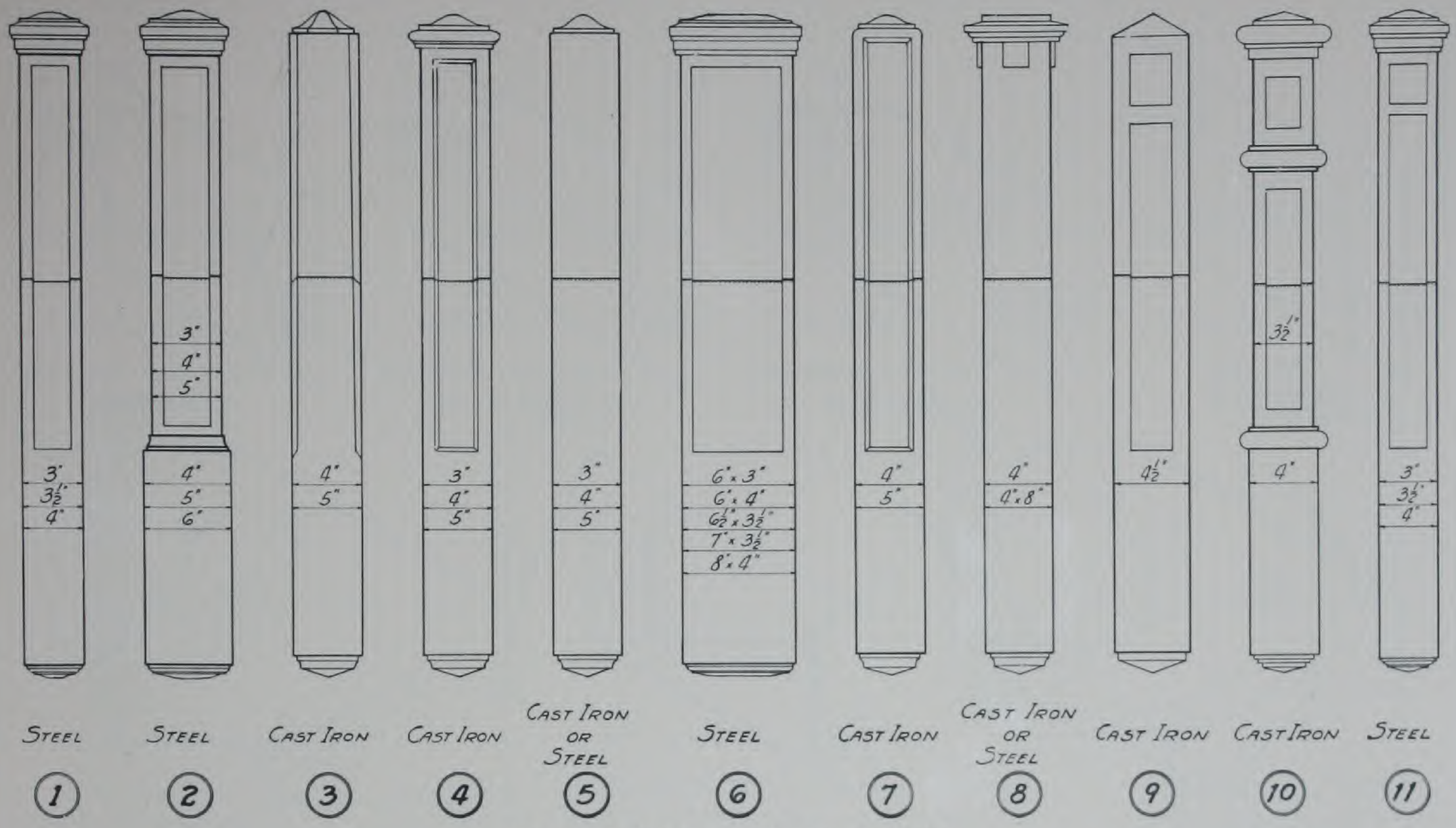
STYLE NO 15
Wrought iron except scrolls which are cast.



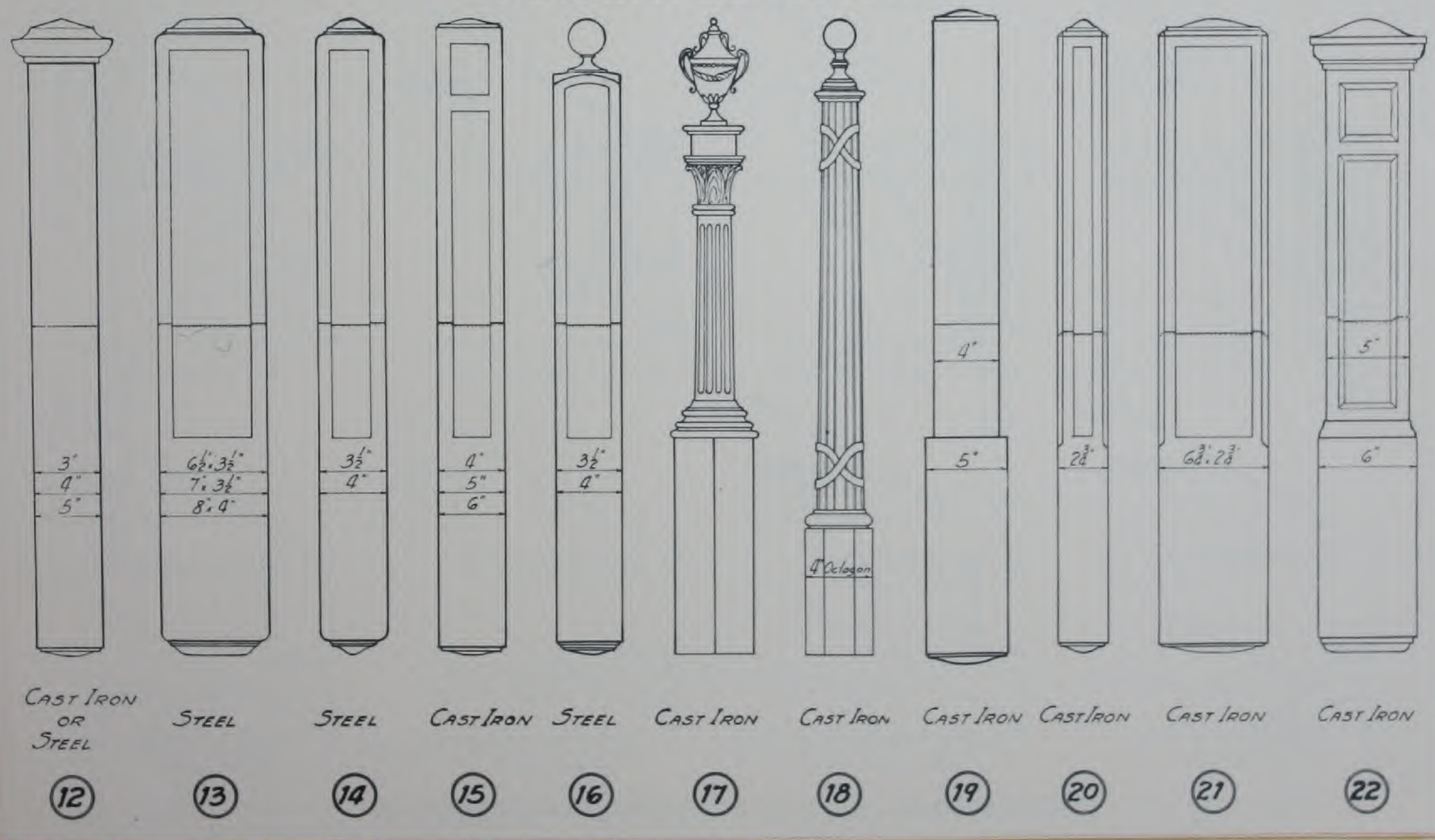
STYLE NO 16
Cast iron panels with plain bars intermediate.

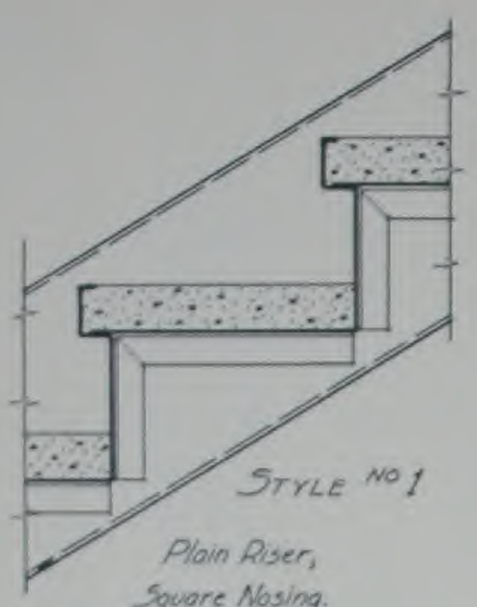
STANDARD BALUSTRADES

THE BUILDING PRODUCTS CO.



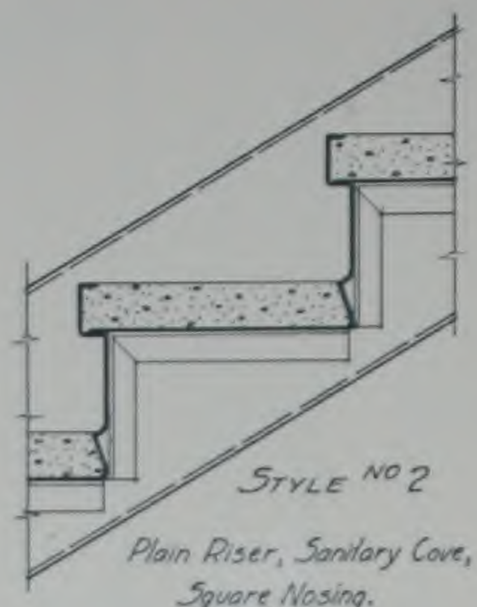
STANDARD NEWEL POSTS





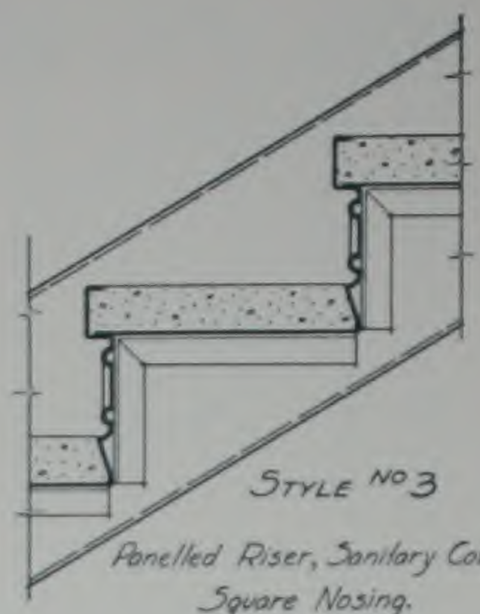
STYLE NO 1

Plain Riser,
Square Nosing.



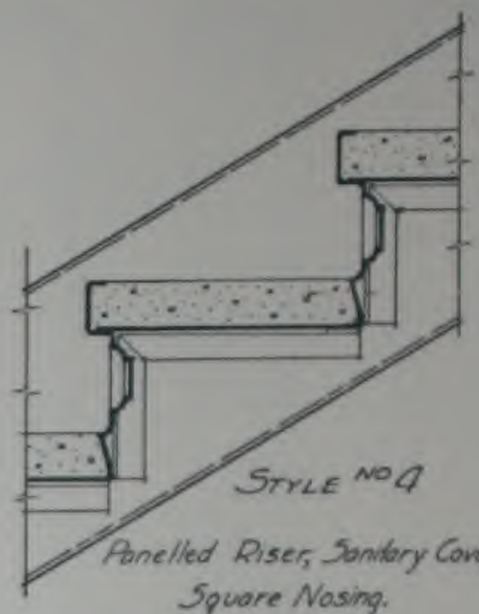
STYLE NO 2

Plain Riser, Sanitary Cove,
Square Nosing.



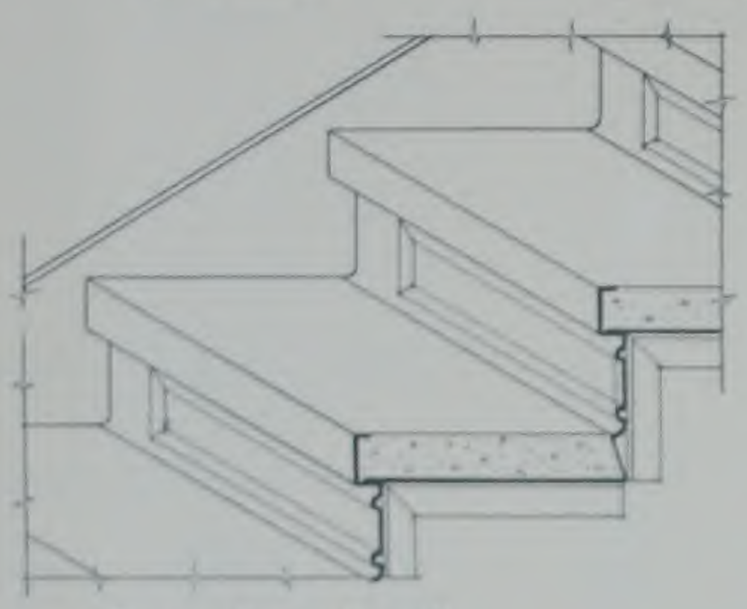
STYLE NO 3

Panelled Riser, Sanitary Cove,
Square Nosing.

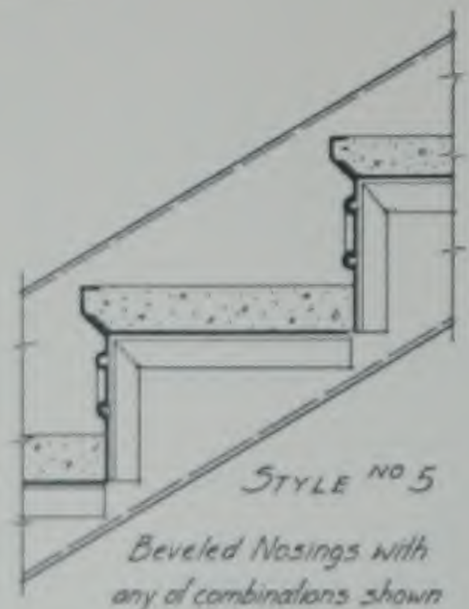


STYLE NO 4

Panelled Riser, Sanitary Cove,
Square Nosing.

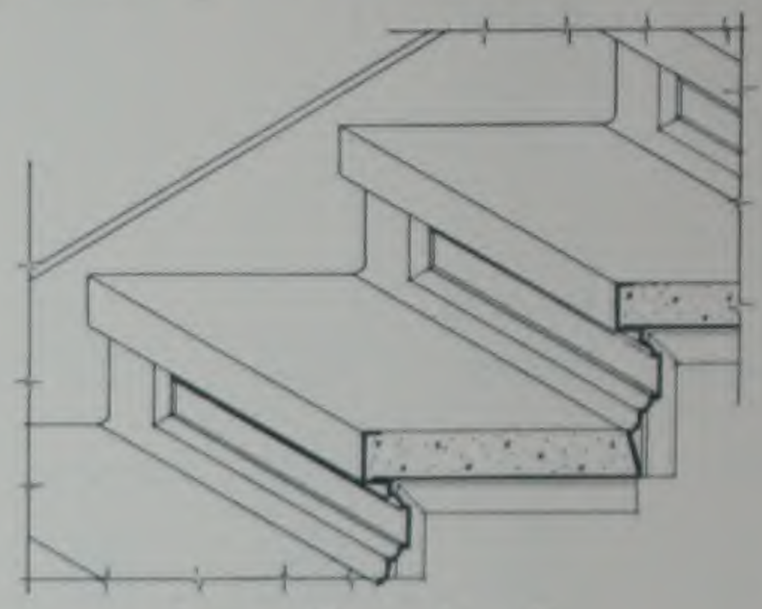


RAISED PANEL TYPE A.



STYLE NO 5

Beveled Nosings with
any of combinations shown
in styles 1 to 4 inclusive.



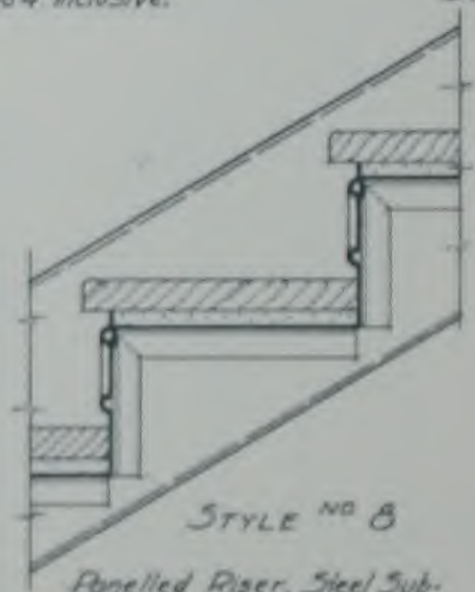
SUNKEN PANEL TYPE B

STYLE NO 6

Safety Nosings with
of styles 1 to 7 inclusive.

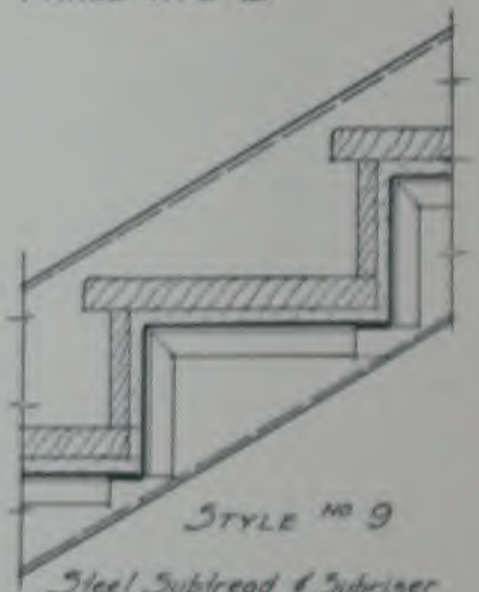
STYLE NO 7

Hospital Cove with
nosings of either style 1 or 5.



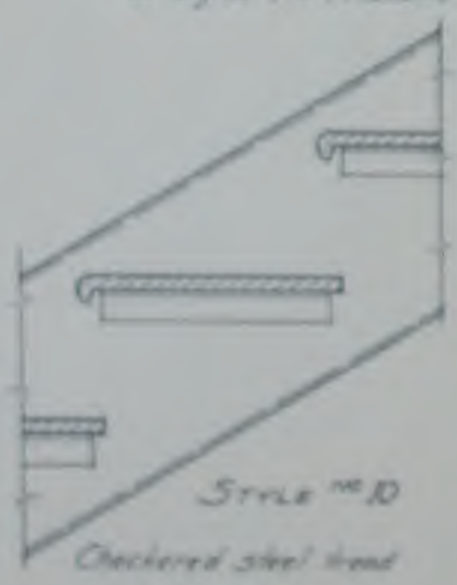
STYLE NO 8

Panelled Riser, Steel Sub-
tread for Marble or Slate.



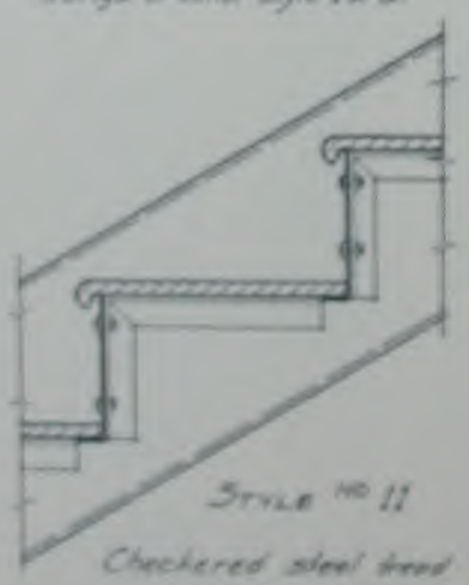
STYLE NO 9

Steel Subtread & Subriser
for Marble or Slate.



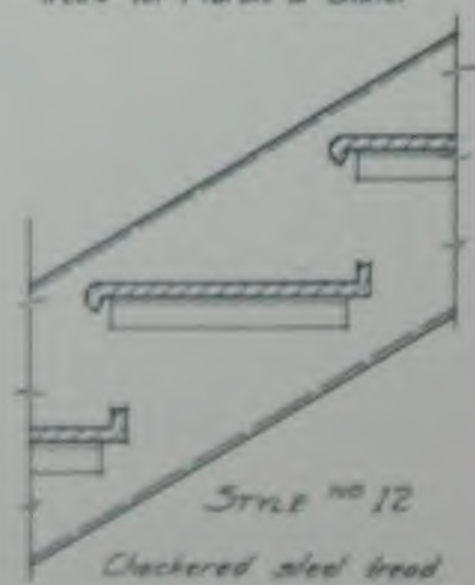
STYLE NO 10

Checkered steel tread
no riser.



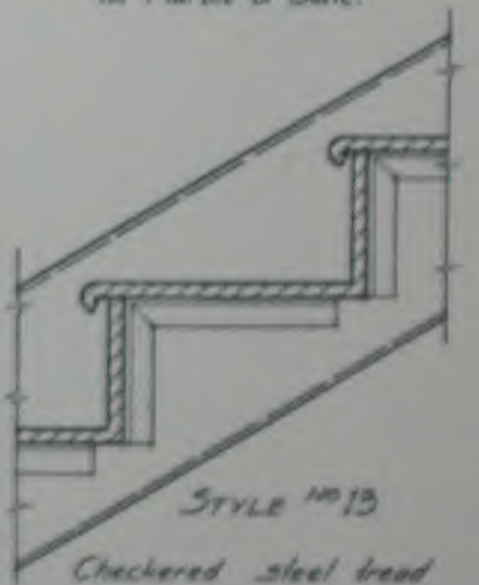
STYLE NO 11

Checkered steel tread
plain steel riser.



STYLE NO 12

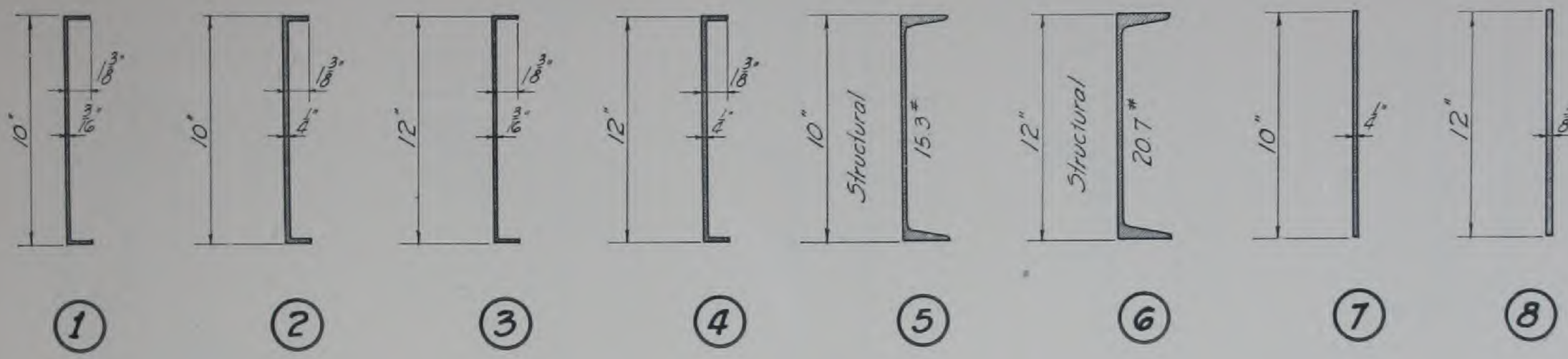
Checkered steel tread
& low riser.



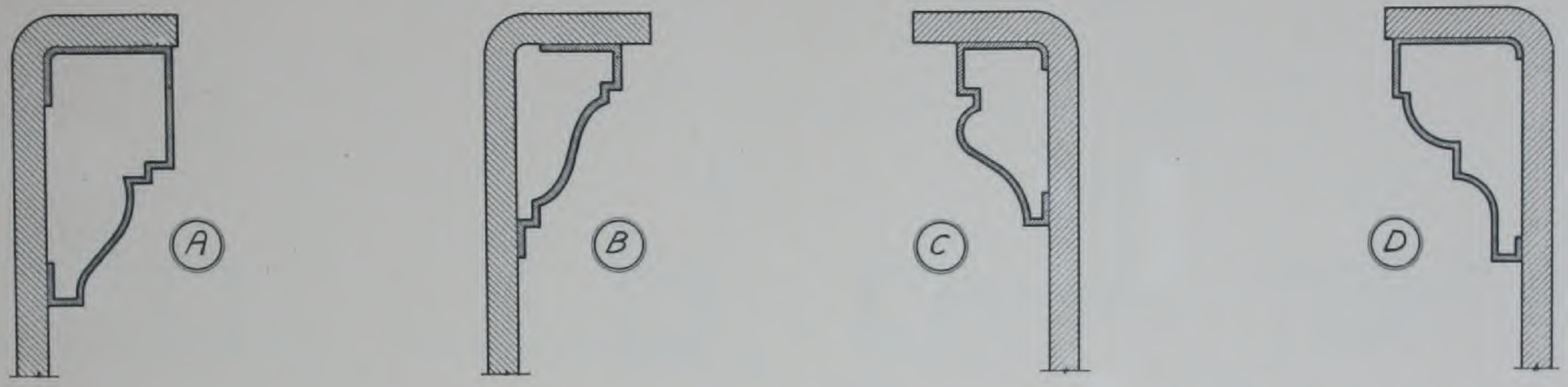
STYLE NO 13

Checkered steel tread
& riser.

-: STANDARD STYLES OF TREADS AND RISERS :-



1 2 3 4 5 6 7 8

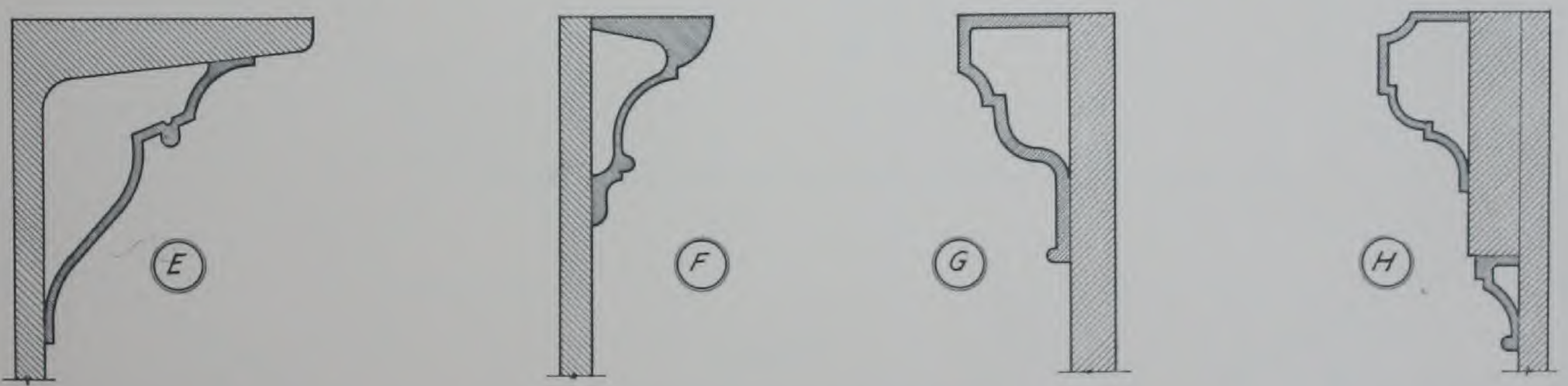


Dahlstrom #18 Steel Moulding used with Stringers #1, #2 #3, & #4.

Dahlstrom #1218 Steel Moulding used with Stringers #1, #2, #3, & #4.

Dahlstrom #846-A Steel Moulding used with Stringers #1, #2, #3, & #4.

Dahlstrom #1065 Steel Moulding used with Stringers #1, #2, #3, & #4.

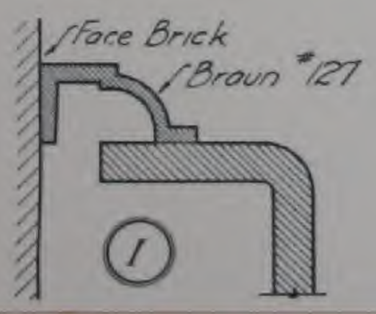


Braun #97 Moulding with Stringers #5 & #6

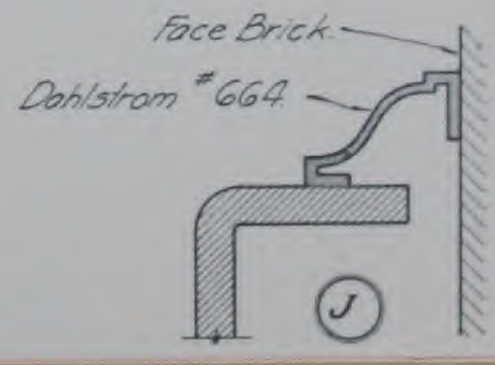
Braun #16 Moulding with Stringers #7 & #8

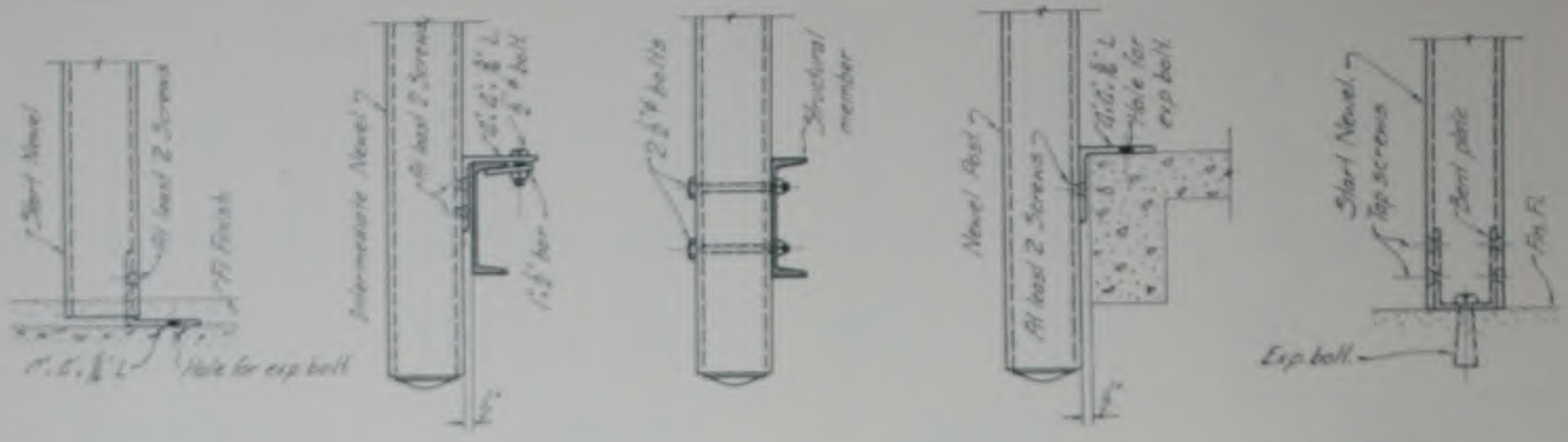
Braun #207 Moulding with Stringers #7 & #8

Braun Mouldings with Special Stringers

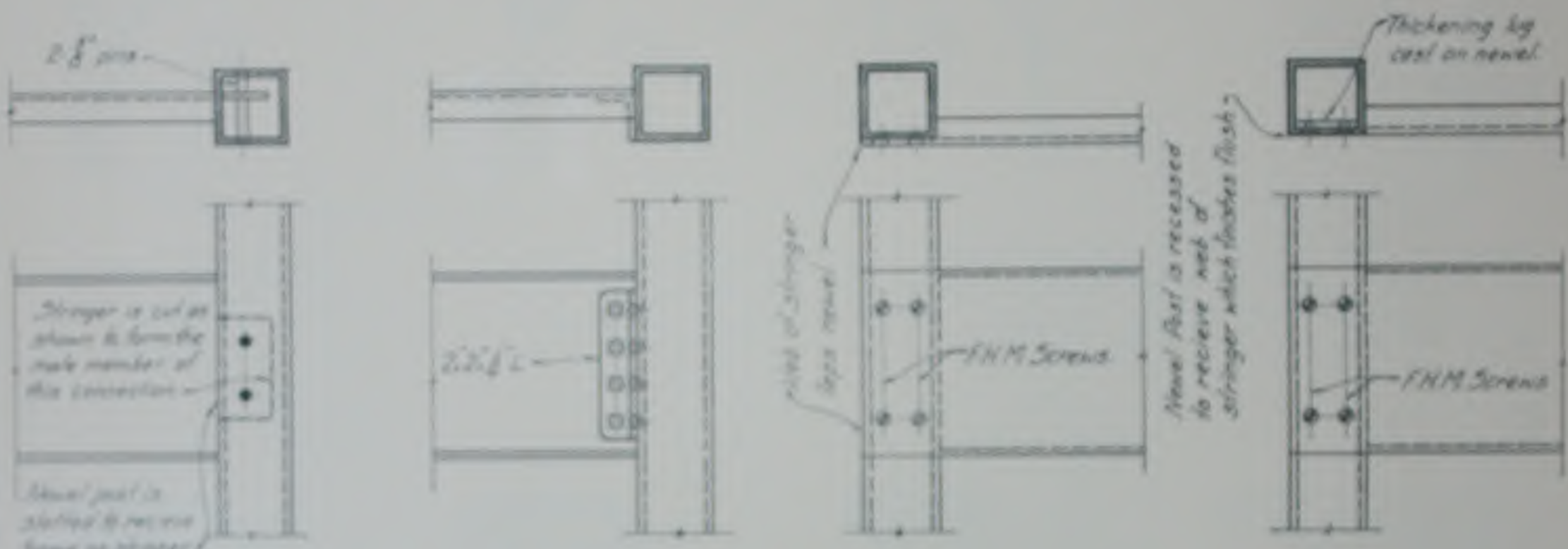


STANDARD STRINGERS AND MOULDINGS MOST COMMONLY USED.



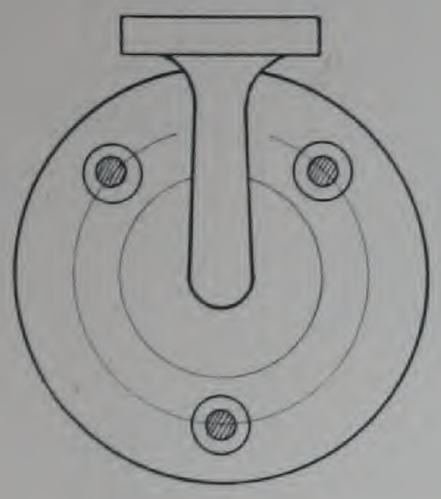


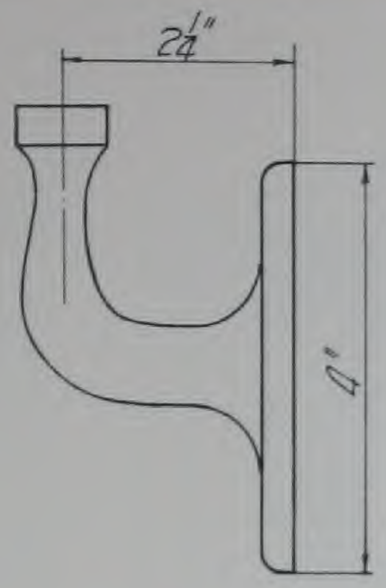
METHODS FOR ANCHORING NEWEL POSTS.



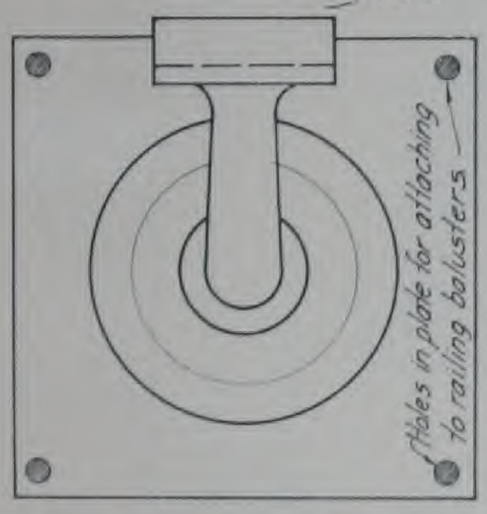
METHODS FOR ATTACHING STRINGERS TO NEWEL POSTS.

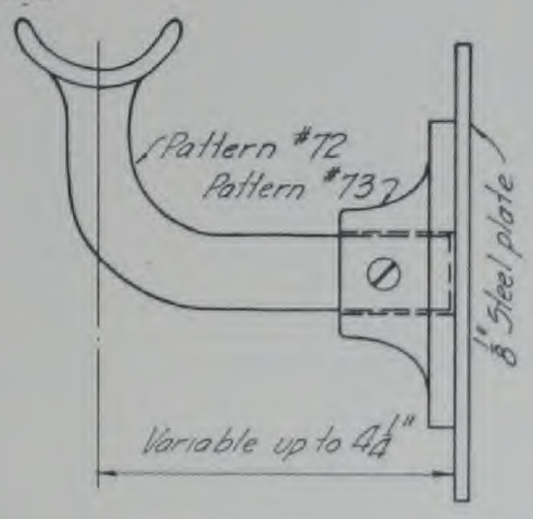
STANDARD STAIR CONSTRUCTION DETAILS

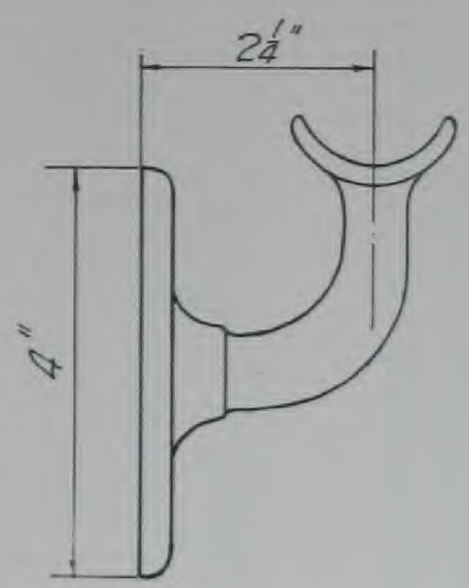




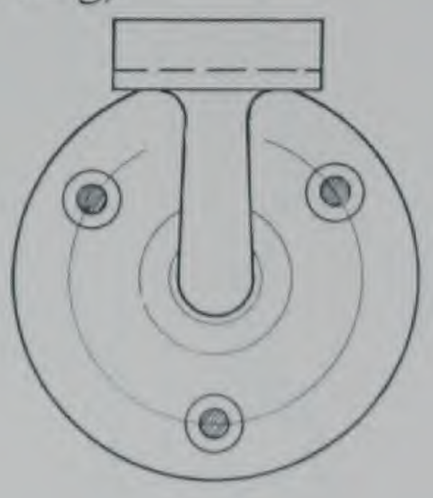
C.I. WALL RAIL BRACKETS
Pattern No 118



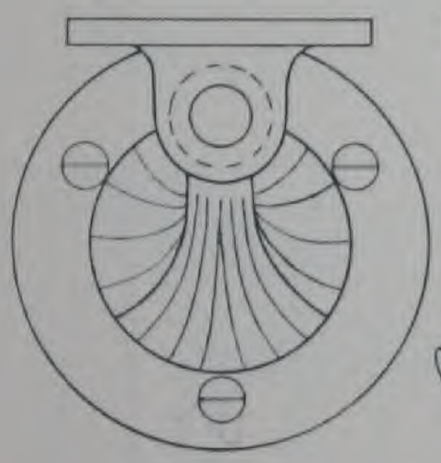


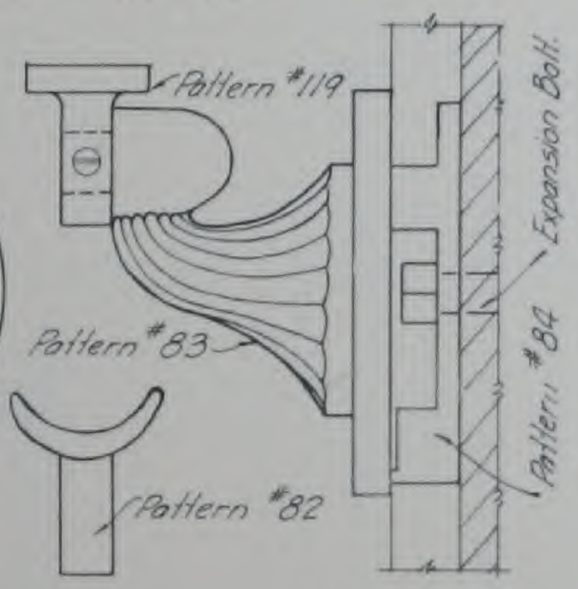


C.I. WALL RAIL BRACKETS
Pattern No 3.

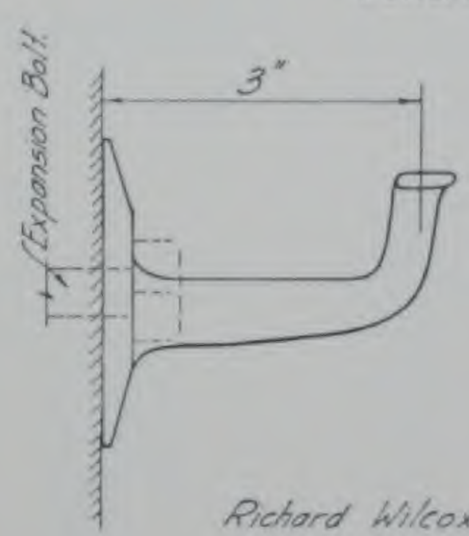


C.I. HANDRAIL BRACKETS FOR HIGH BALUSTRADES
Patterns No 72 & 73



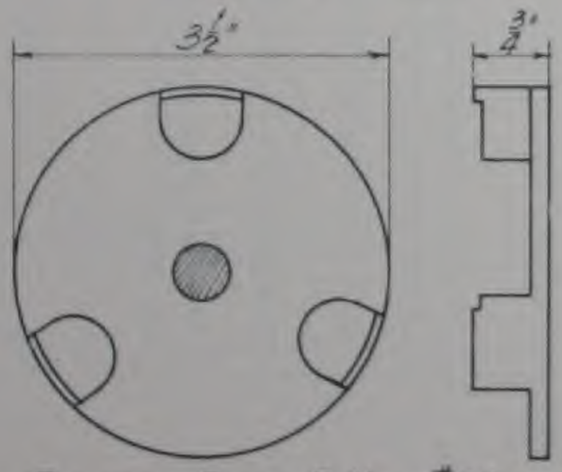


C.I. WALL RAIL BRACKETS
Pattern No 2



Richard Wilcox #666 bracket
black japanned or bronze finish
with expansion bolt to match

C.I. WALL RAIL BRACKETS WITH PLASTER PLATES.
Patterns No 82, 83, 84, & 119

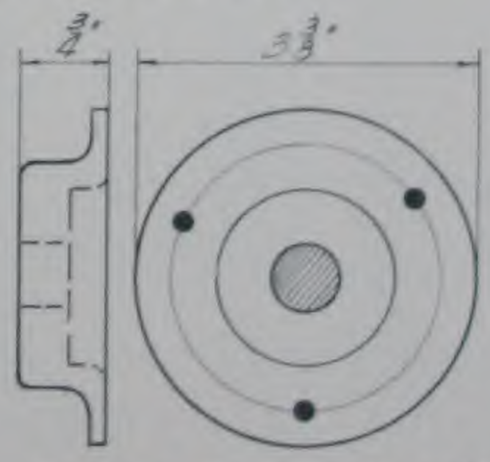


PLASTER PLATE Pattern #84.

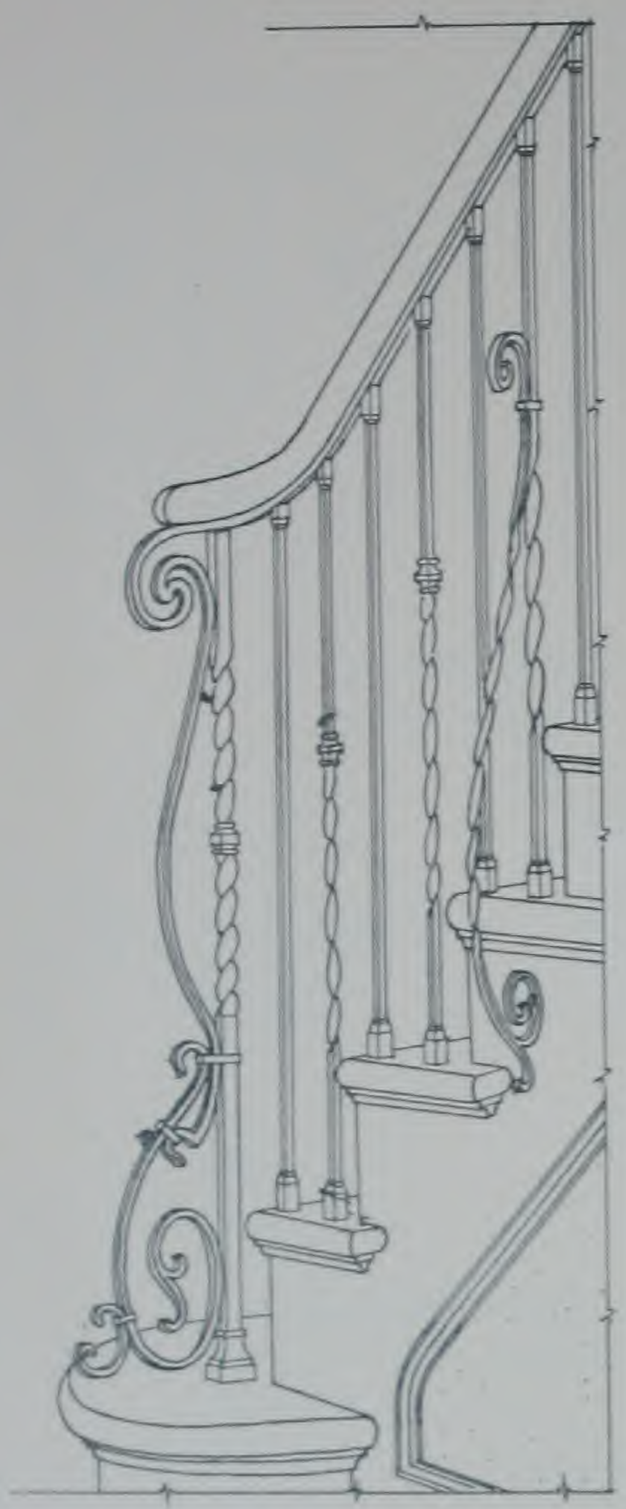
NOTE:- Unless otherwise noted the types of brackets shown above are secured to the walls by small expansion or toggle bolts or are secured to wood plates running on walls by #12-1½" FH screws. If desired plaster plates may be used.

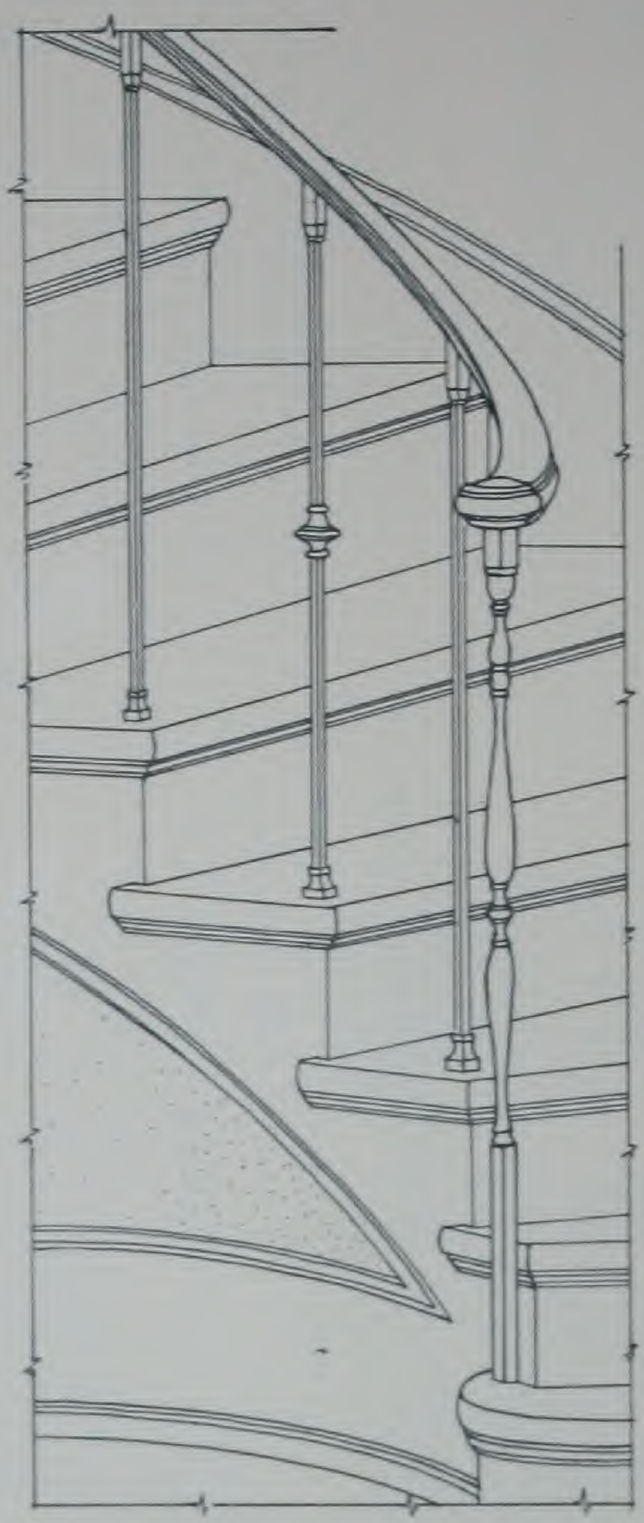
STANDARD RAIL BRACKETS

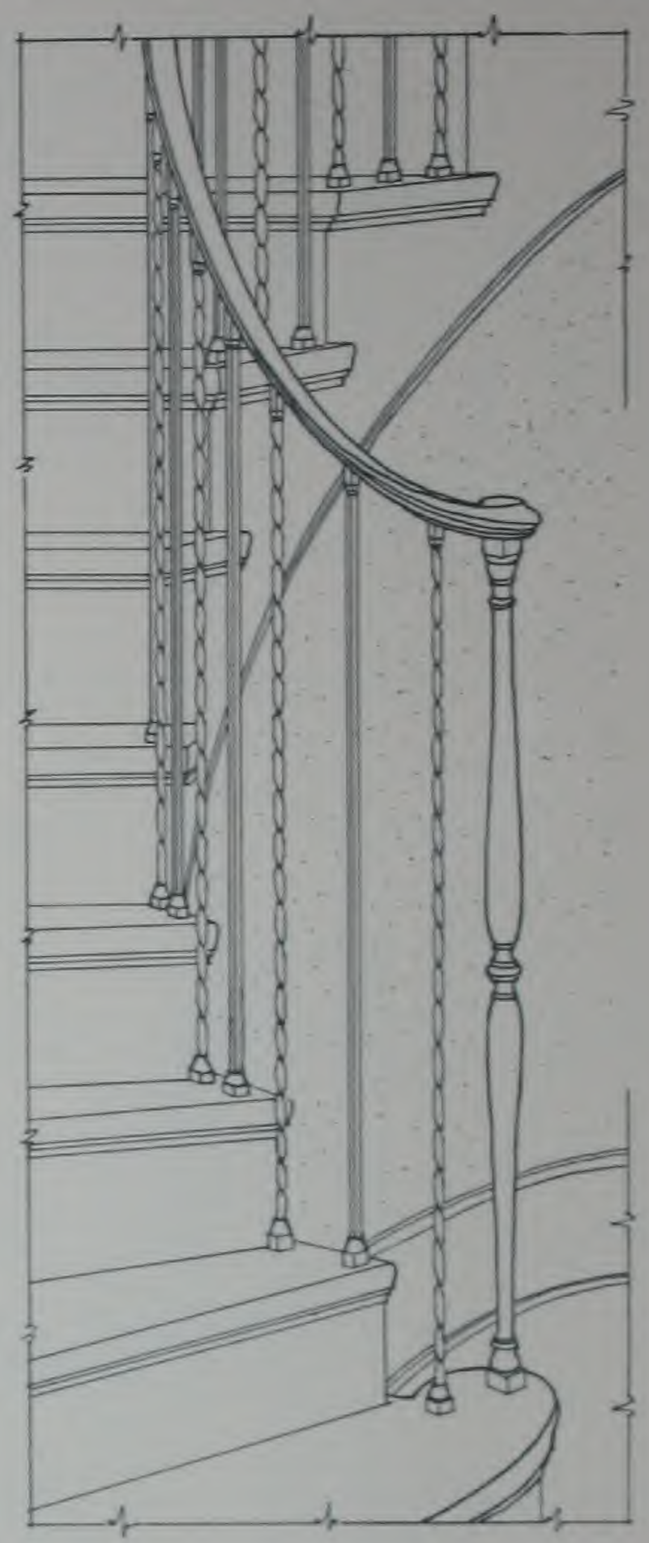
WALL RAIL BRACKETS

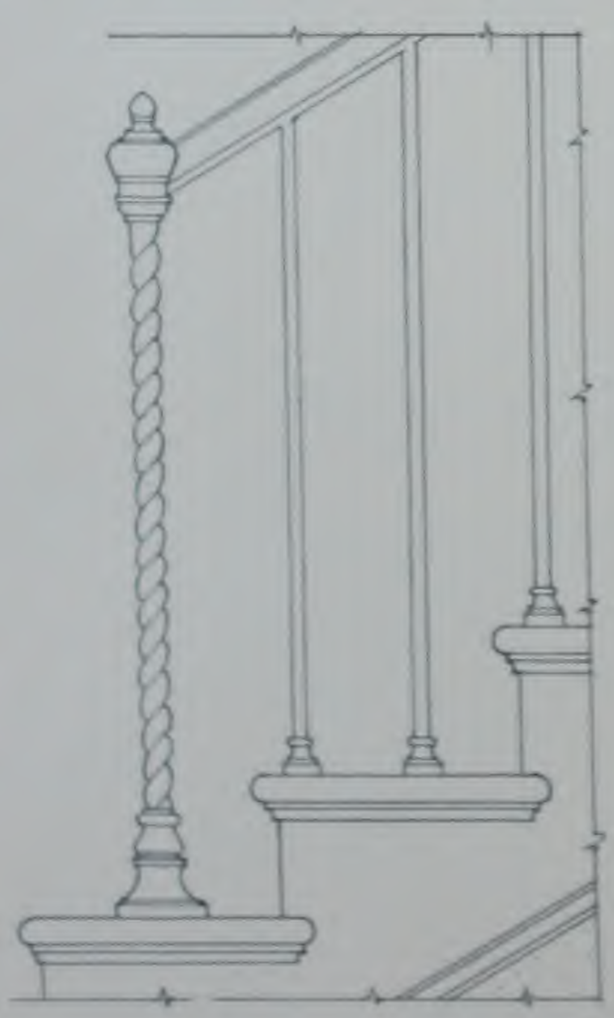


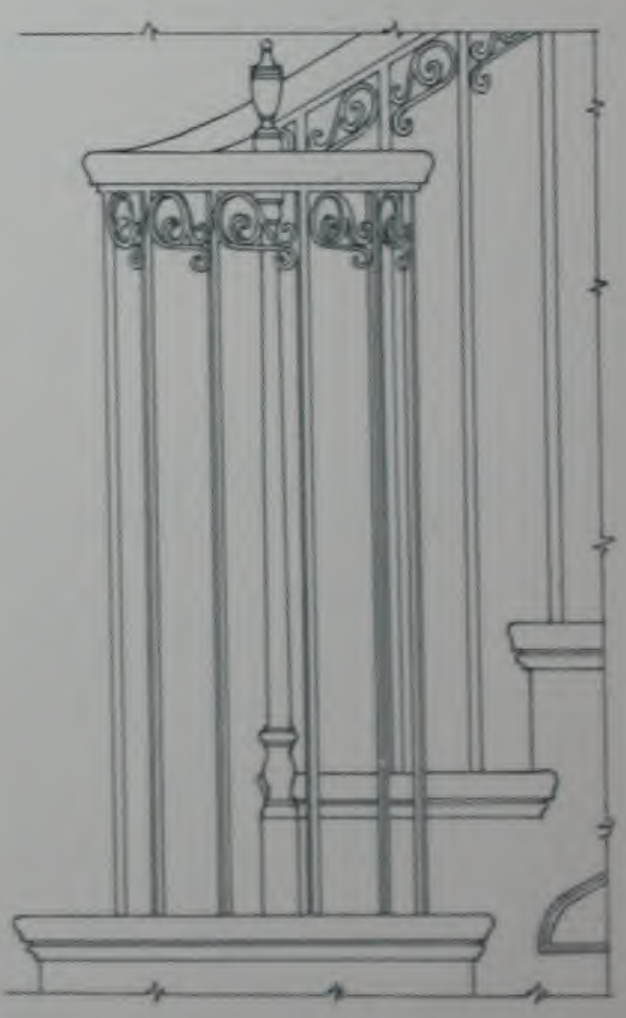
PLASTER PLATE Pattern #104





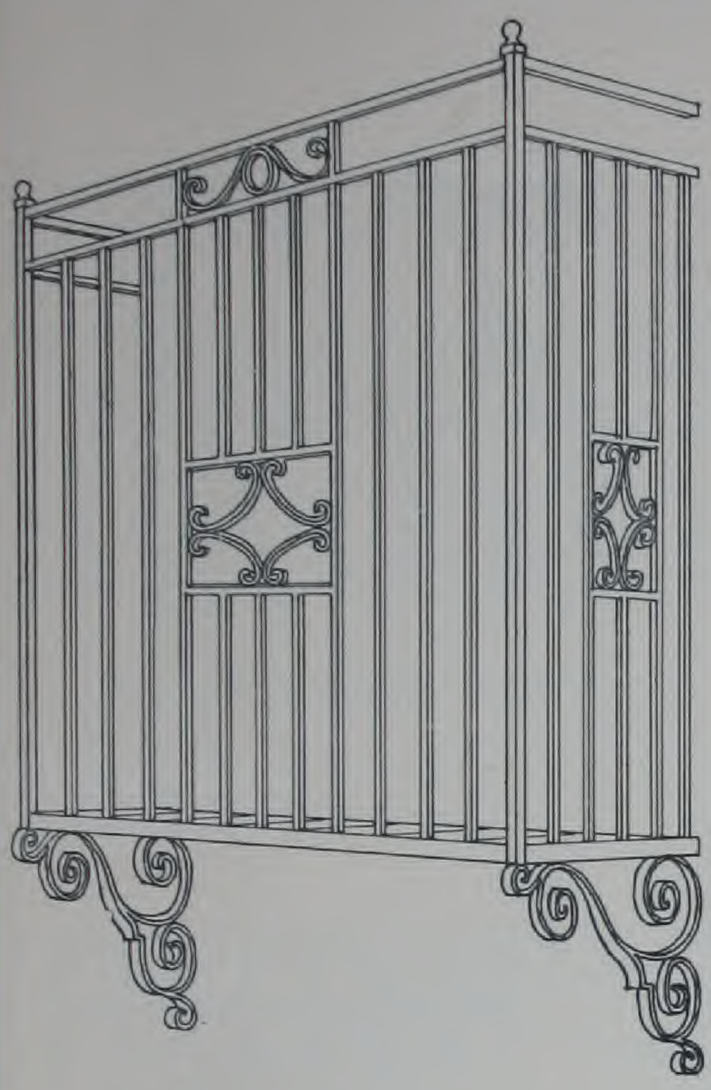


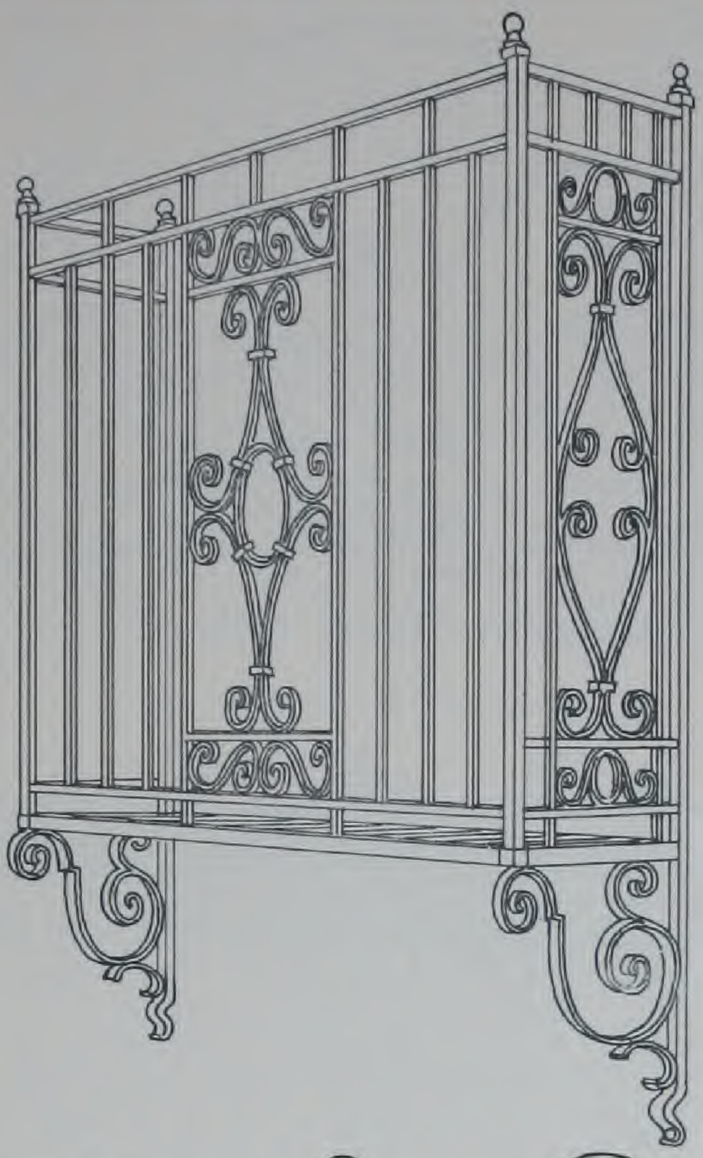


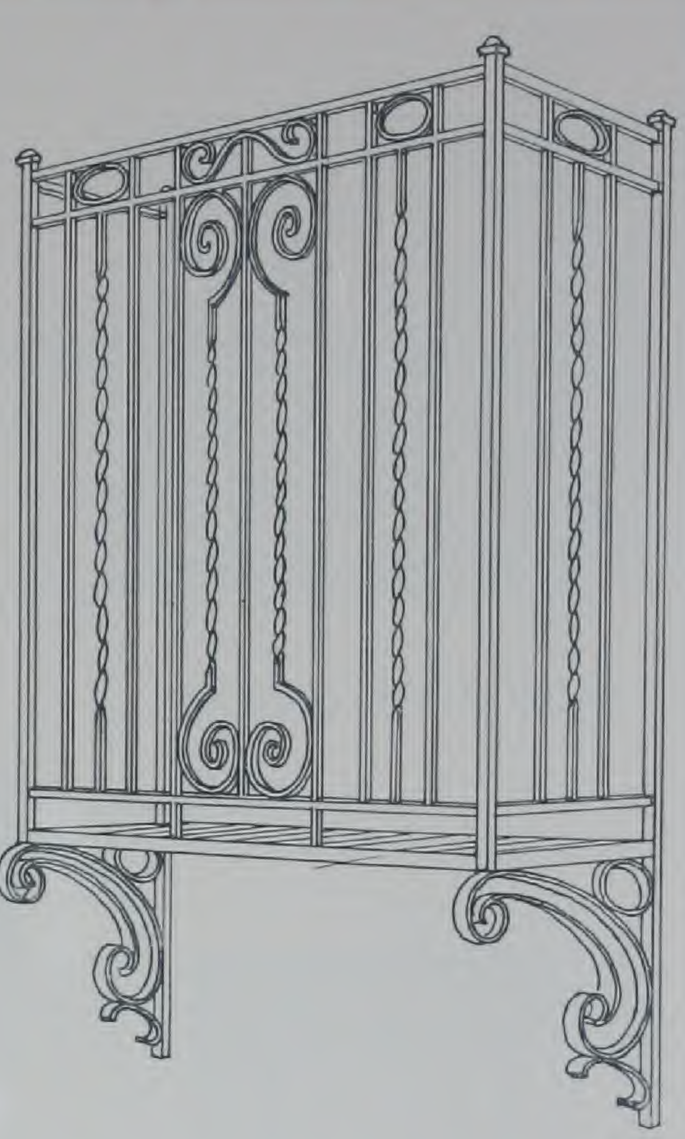


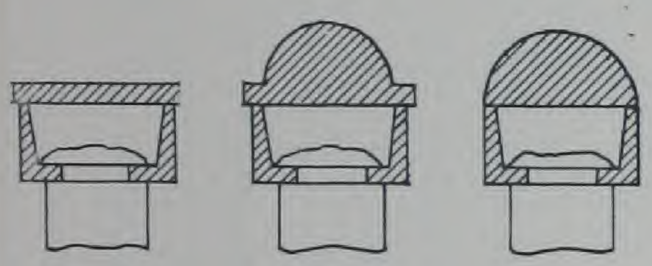
A FEW BALUSTRADES FOR WOOD STAIRS.

THE BUILDING PRODUCTS CO.

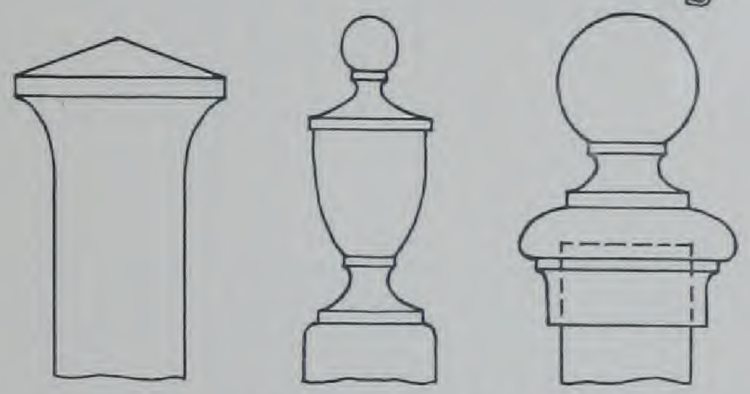






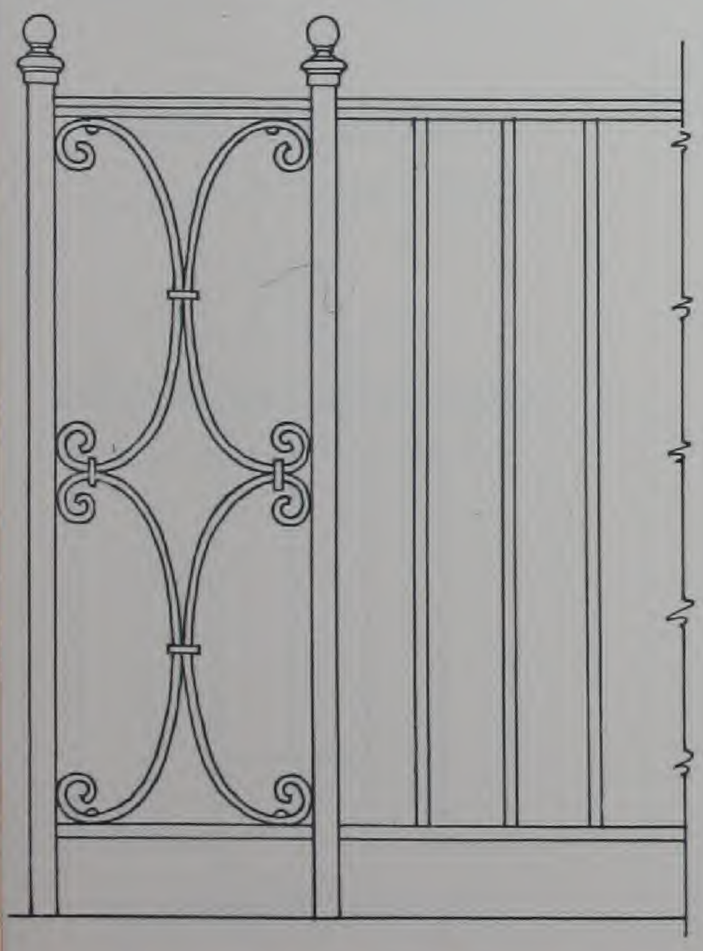


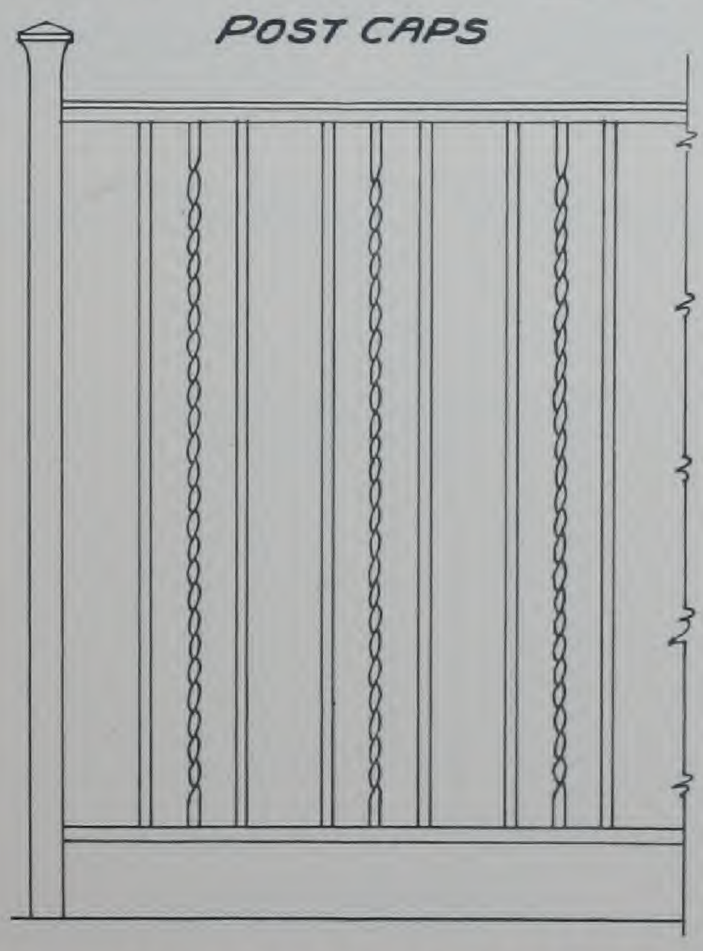
RAILS

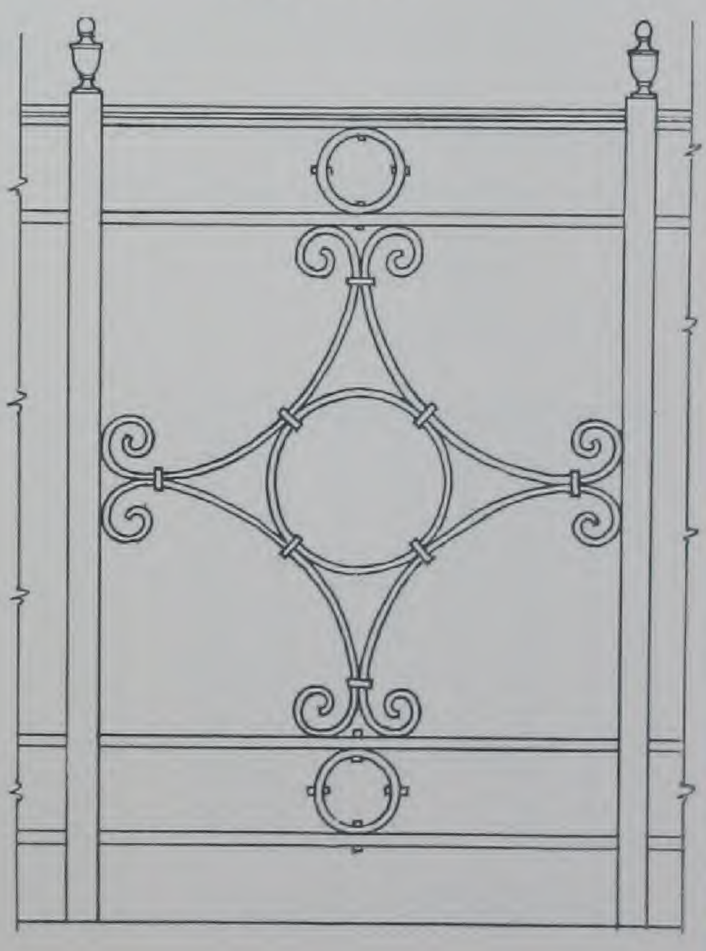


POST CAPS

RAILS

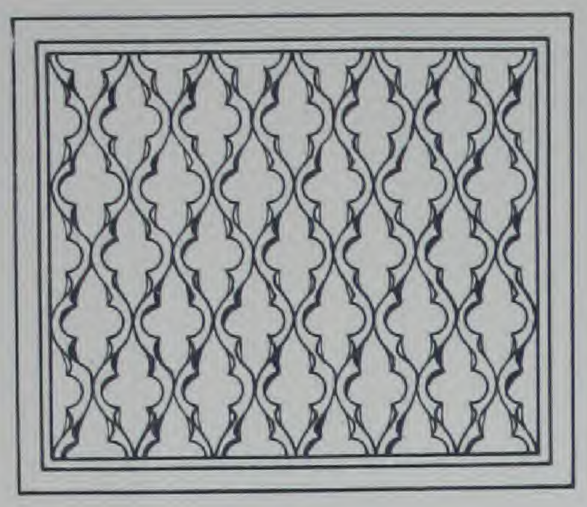






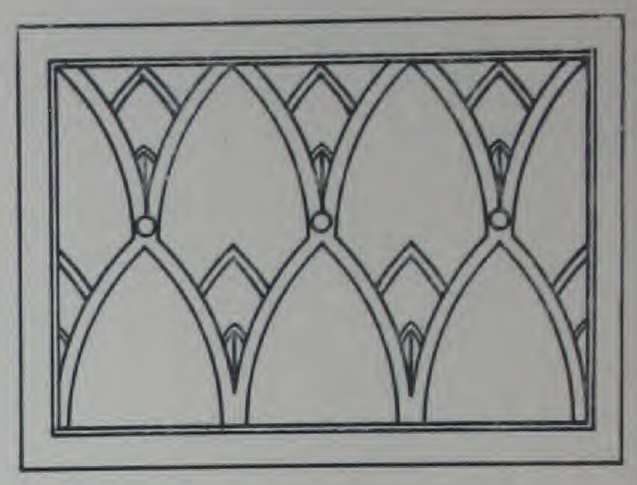
BALCONIES & BALUSTRADES.

ORNAMENTAL IRON WORK

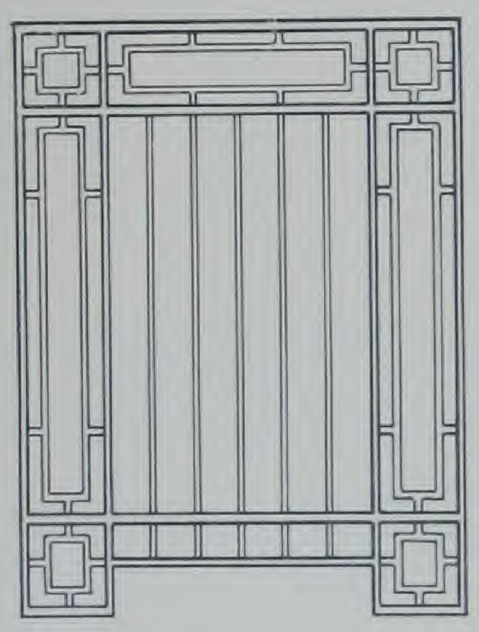


CAST IRON GRILLE

WROUGHT IRON GRILLE

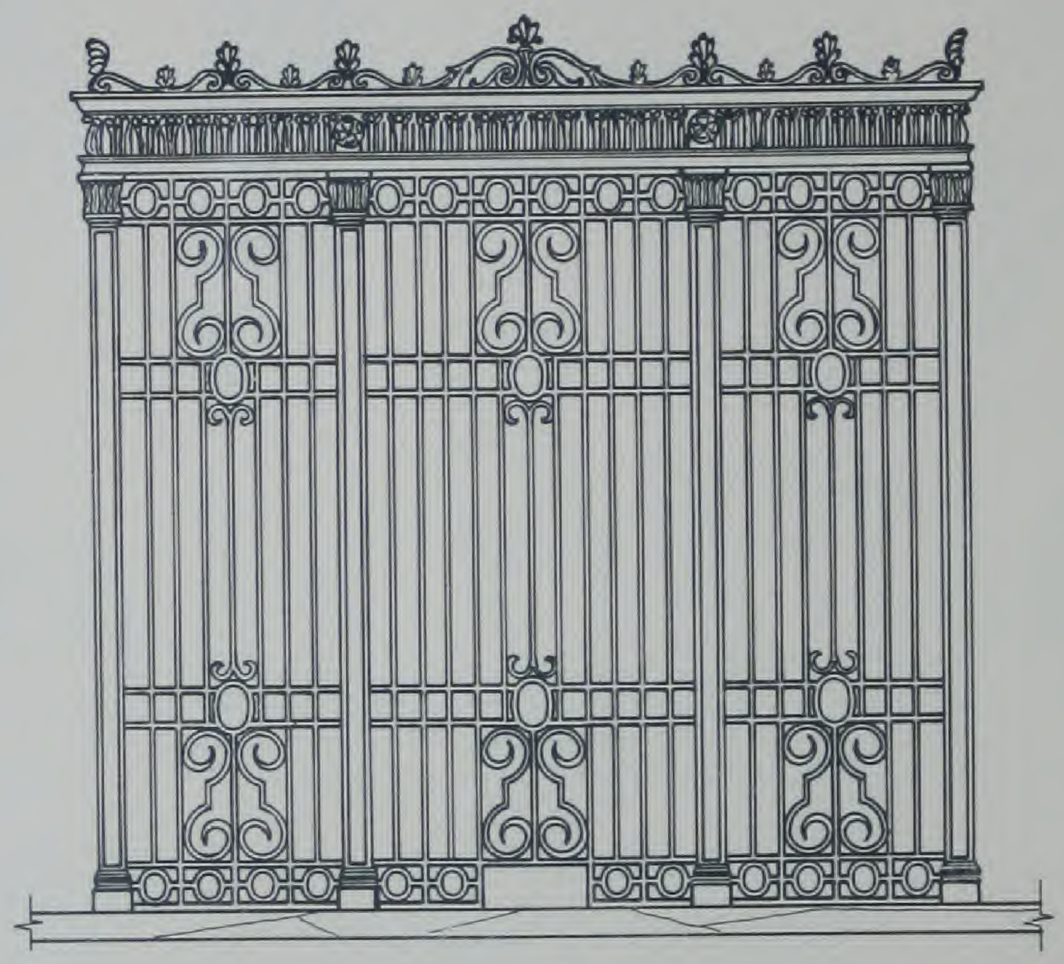


CAST IRON GRILLE

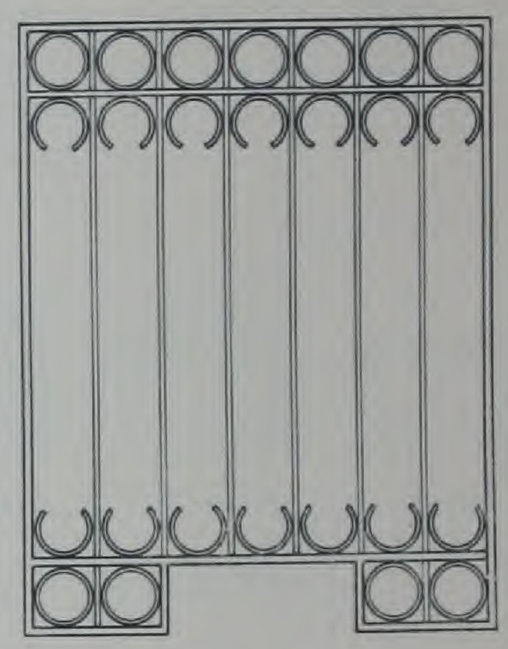


CASHIERS GRILLE

Iron, Brass or Bronze

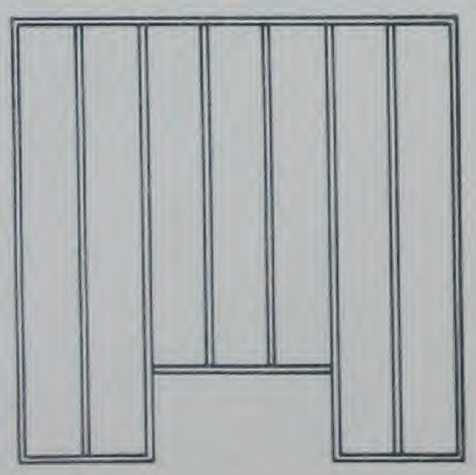


CAST IRON CASHIERS CAGE



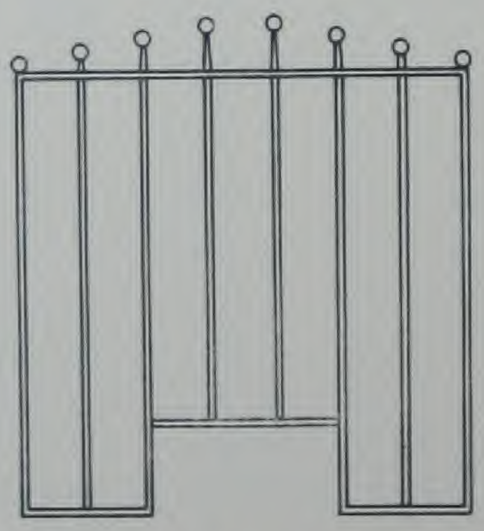
CASHIERS GRILLE

Iron, Brass or Bronze.



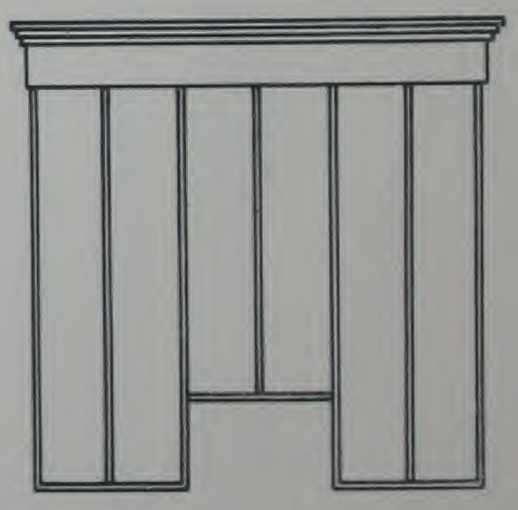
CASHIERS GRILLE

Iron, Brass or Bronze.



CASHIERS GRILLE

Iron, Brass or Bronze

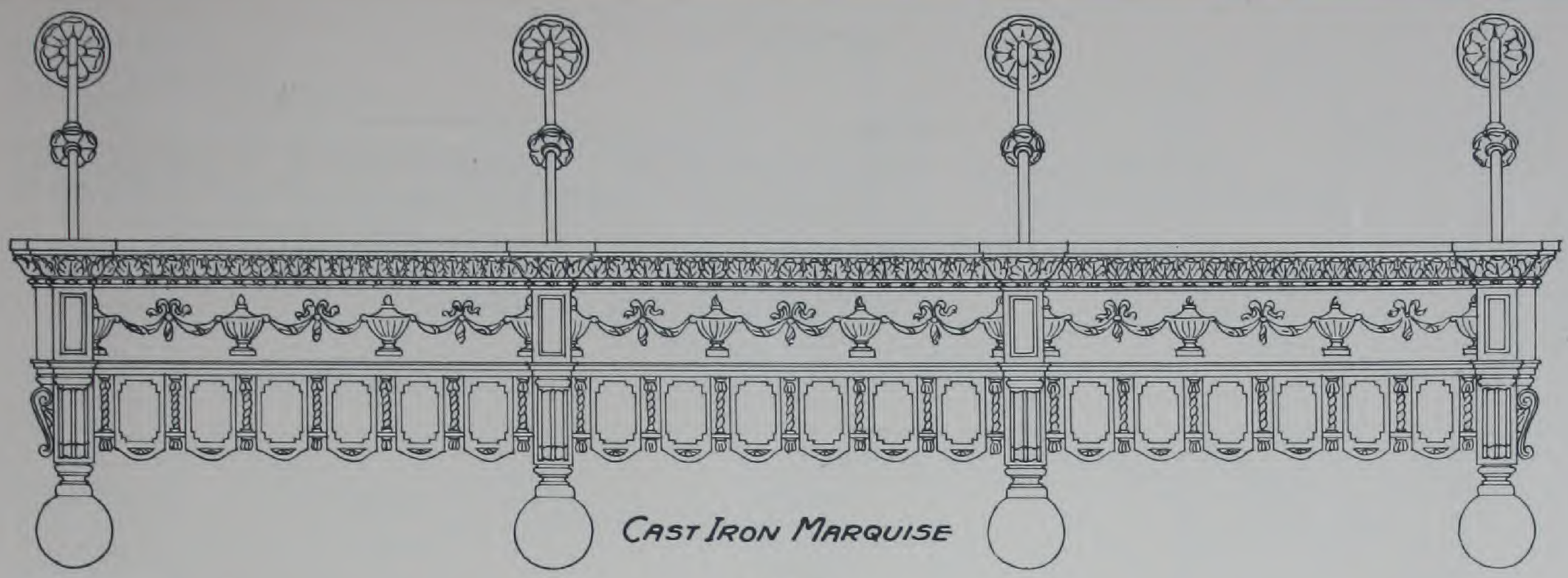


CASHIERS GRILLE

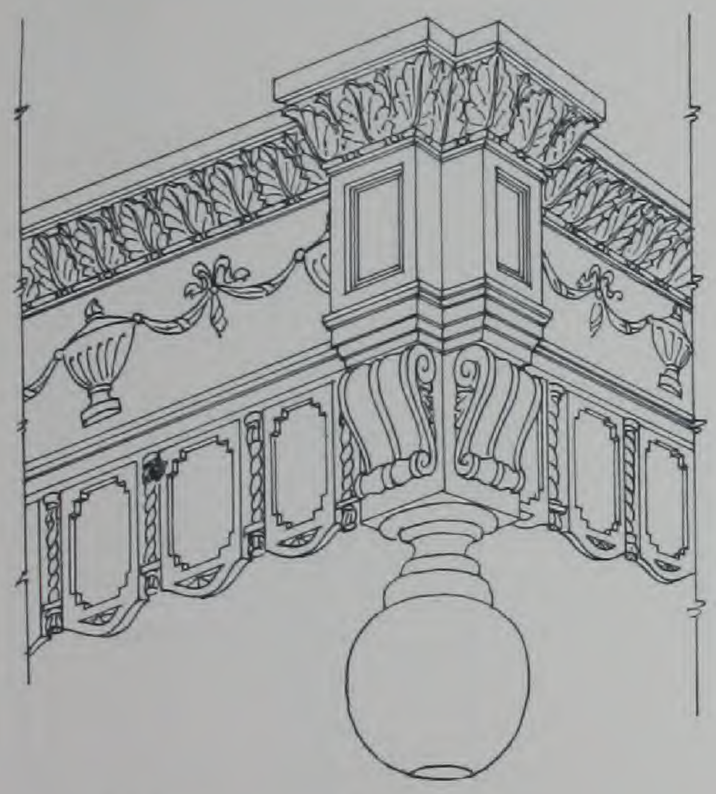
Iron, Brass or Bronze.

MISCELLANEOUS GRILLES & CAGES.

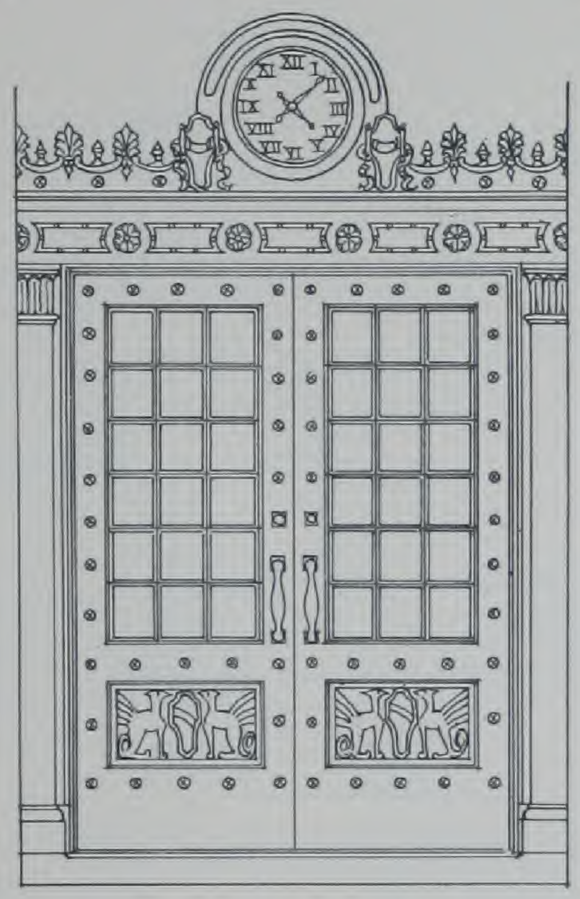
THE BUILDING PRODUCTS CO.



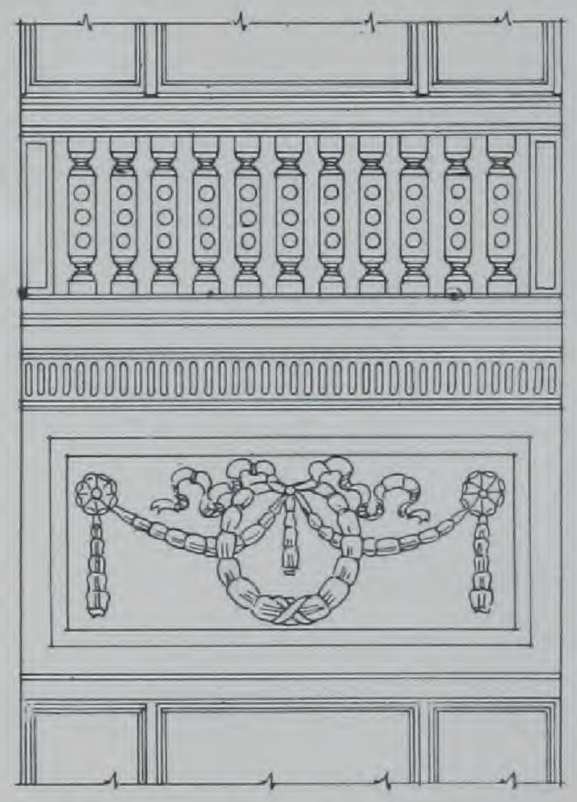
CAST IRON MARQUISE



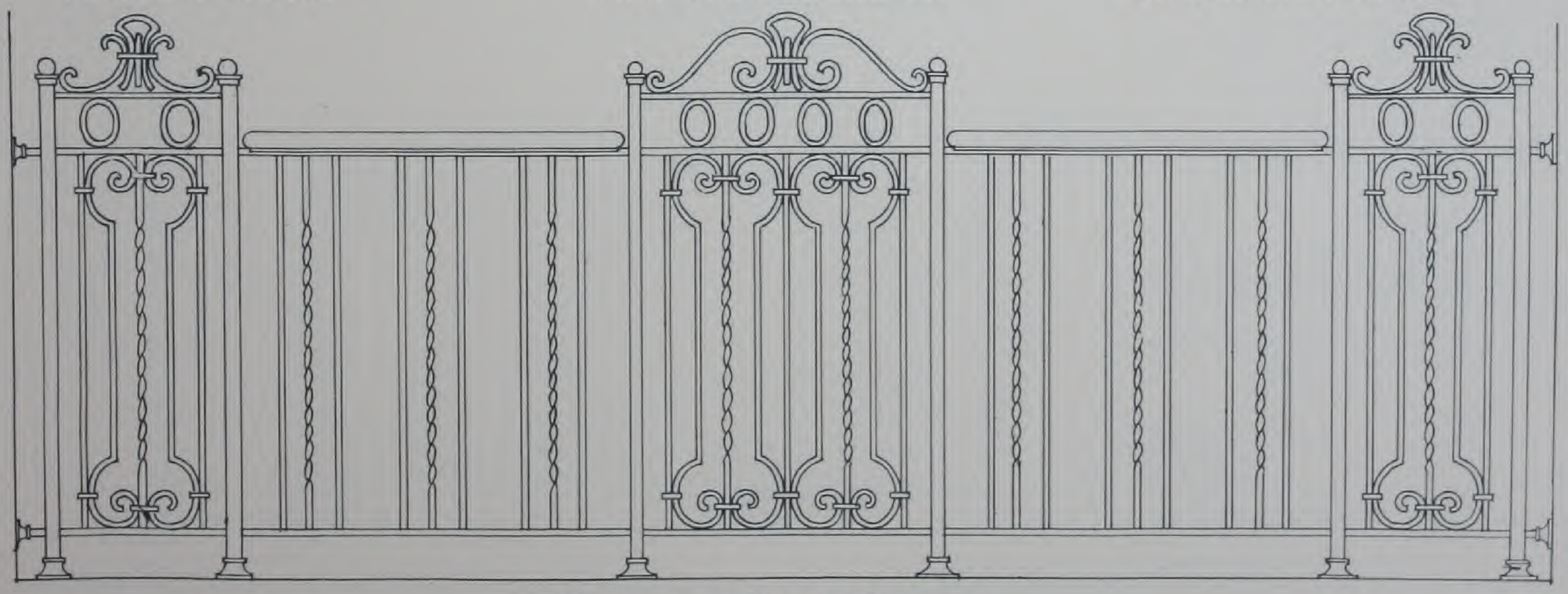
MARQUISE DETAIL



CAST IRON ENTRANCE

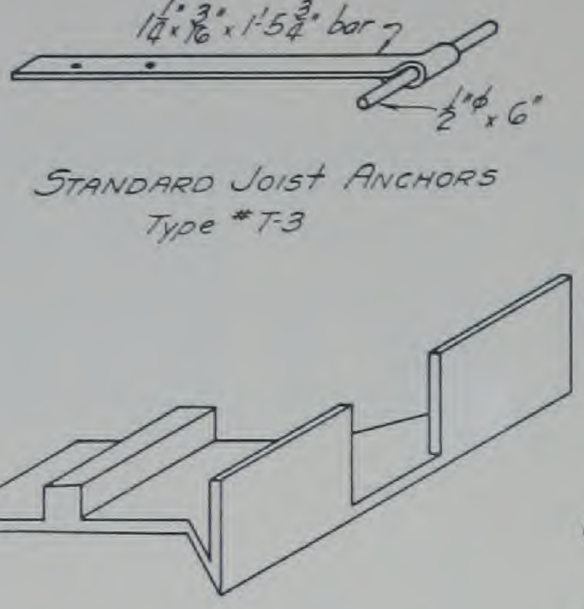


CAST IRON SPANDREL



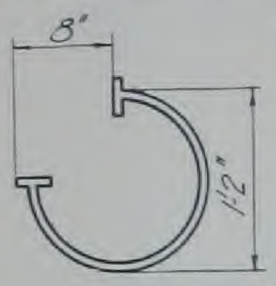
WROUGHT IRON RAILING

ORNAMENTAL IRON WORK

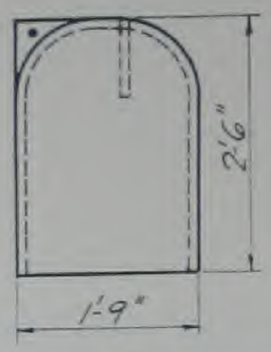


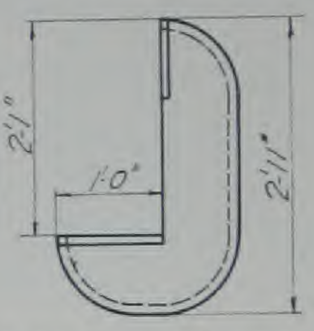
STANDARD JOIST ANCHORS
Type # T-3

C.I. JOIST ANCHORS.

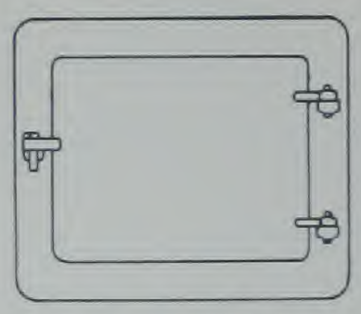


C.I. WHEEL GUARD
PATT. # 38

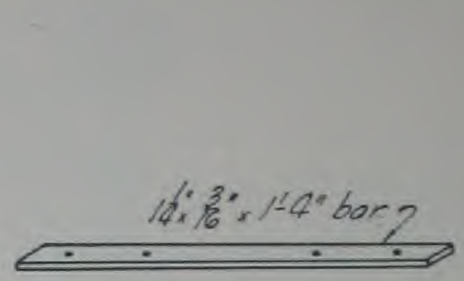




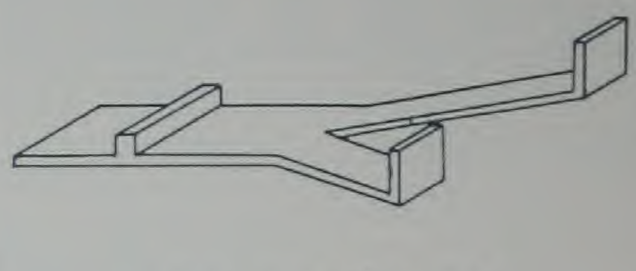
C.I. WHEEL GUARD
PATT. # 112



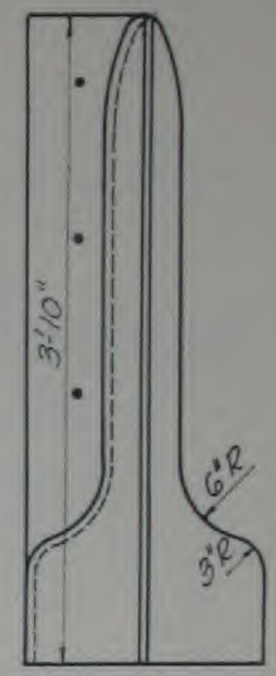
CLEANOUT DOORS
All standard sizes.

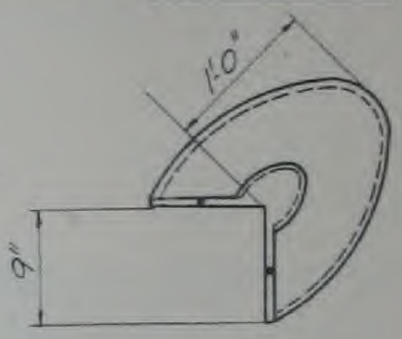


STANDARD JOIST STRAPS
Type # T-2

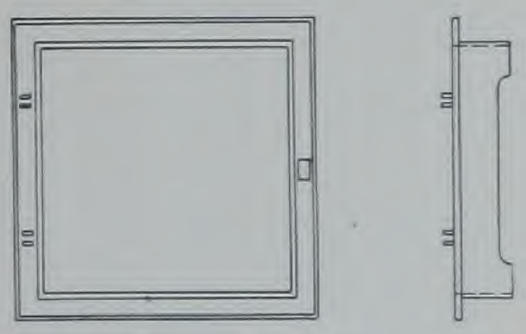


C.I. JOIST ANCHORS.

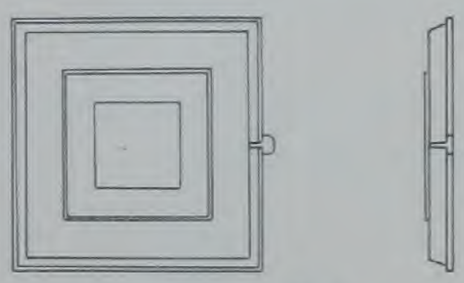




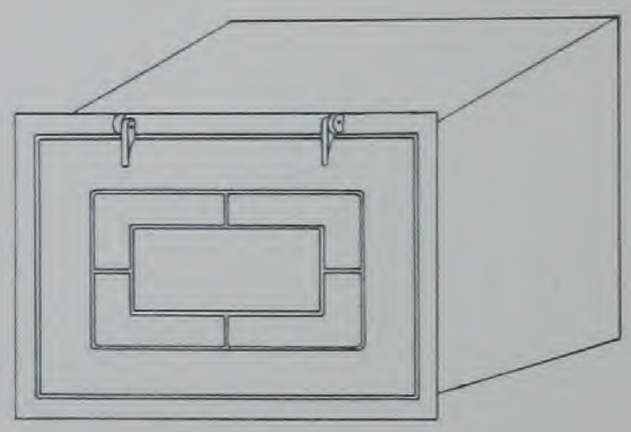
C.I. WHEEL GUARD
PATT. # 61



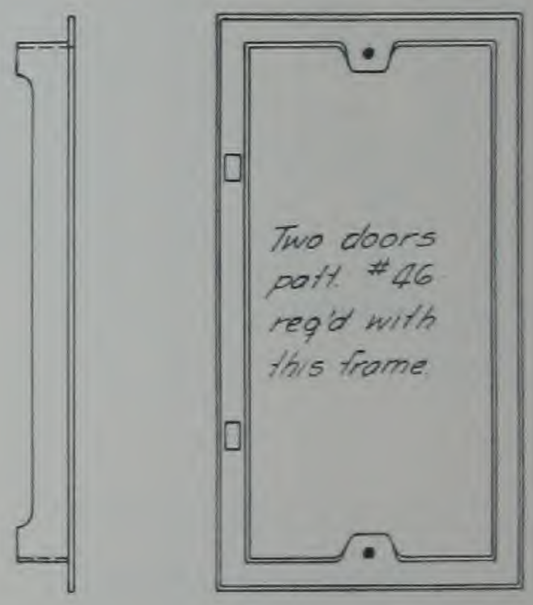
FRAME PATT # 45



DOOR PATT. # 46

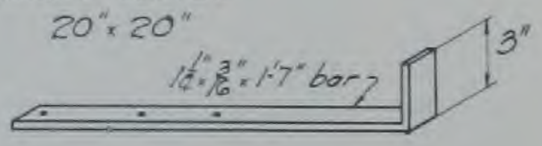


COAL CHUTES
All standard types & sizes.

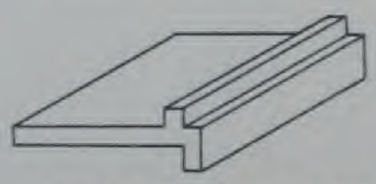


FRAME PATT # 47

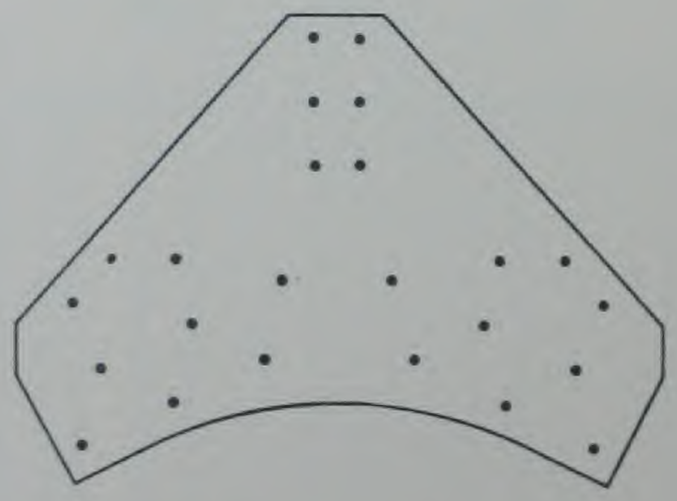
EXTRA HEAVY C.I. CLEANOUT DOOR.
SINGLE STYLE
20" x 20"



STANDARD JOIST ANCHORS
Type # T-1

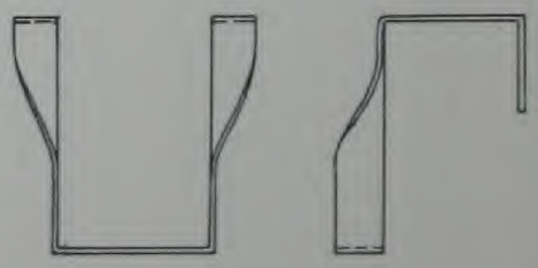


C.I. JOIST ANCHORS



HARDWARE FOR WOOD TRUSSES

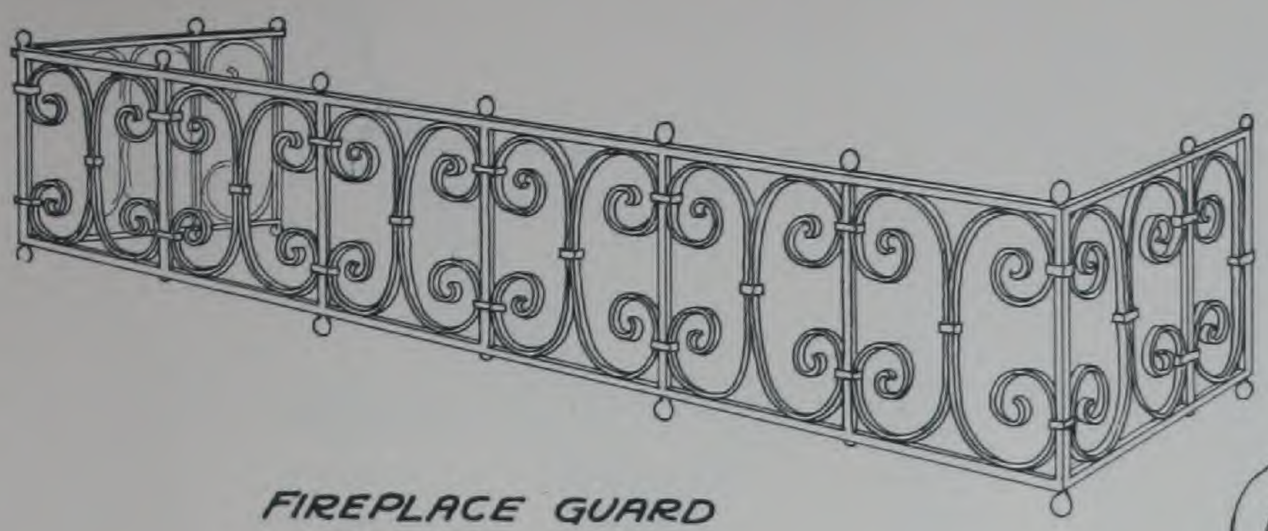
EXTRA HEAVY C.I. CLEANOUT DOOR
DOUBLE STYLE
20" x 40"



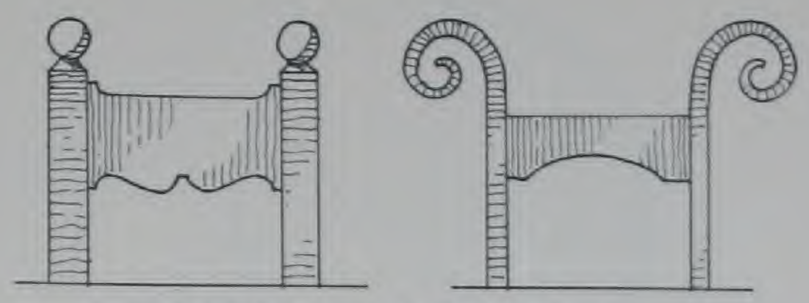
JOIST HANGERS
All types & sizes.

MISCELLANEOUS SPECIALTIES

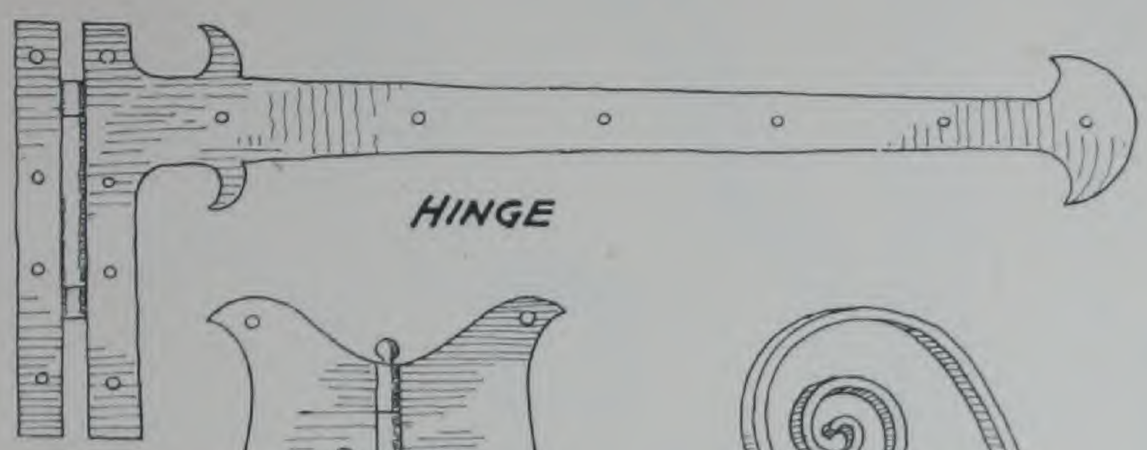
THE BUILDING PRODUCTS CO.



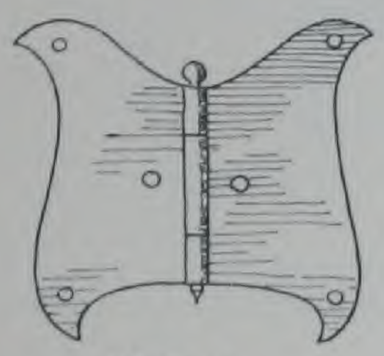
FIREPLACE GUARD



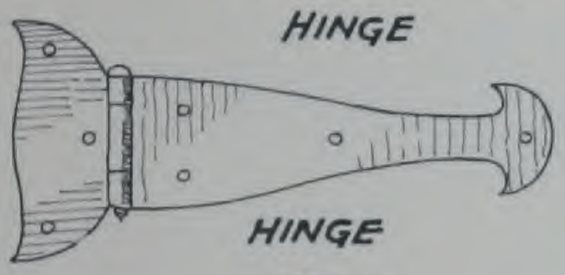
MUD SCRAPERS



HINGE

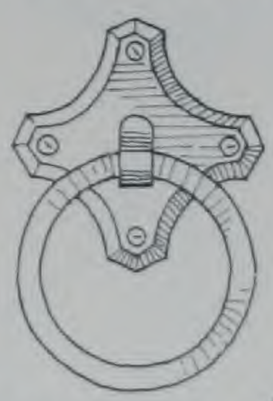


HINGE



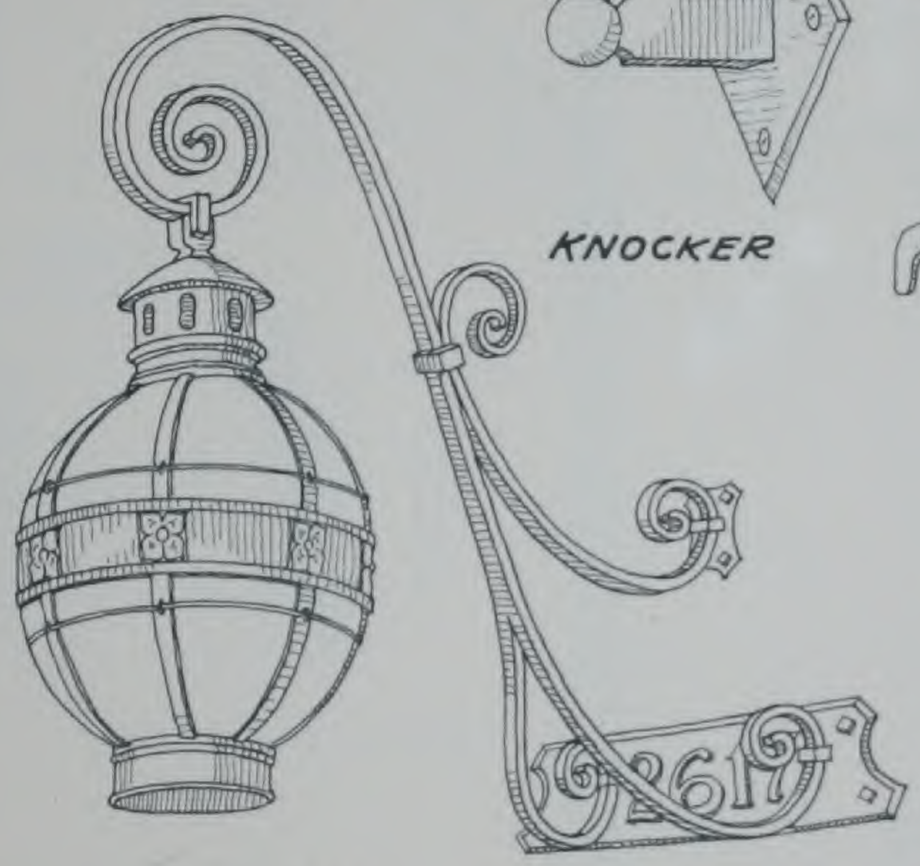
HINGE

KNOCKER

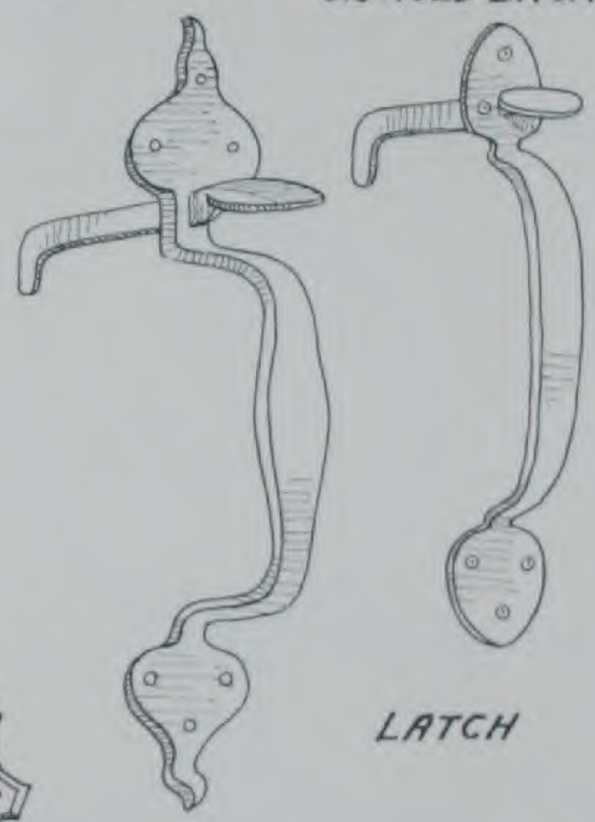


GATE PULL

SHUTTER DOG OR HOLD BACK



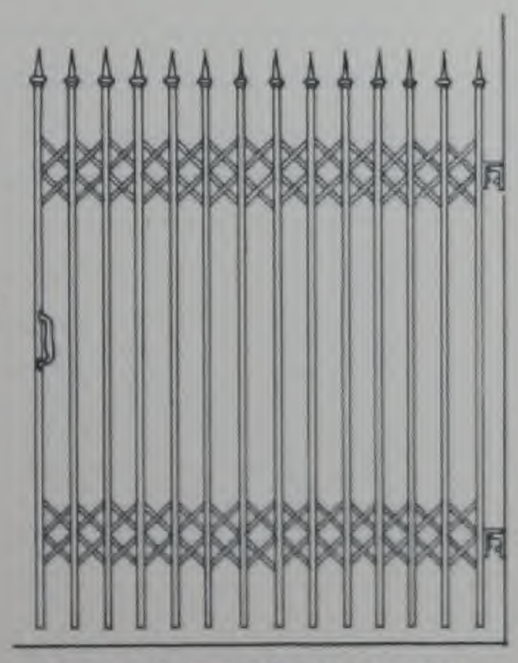
LANTERN



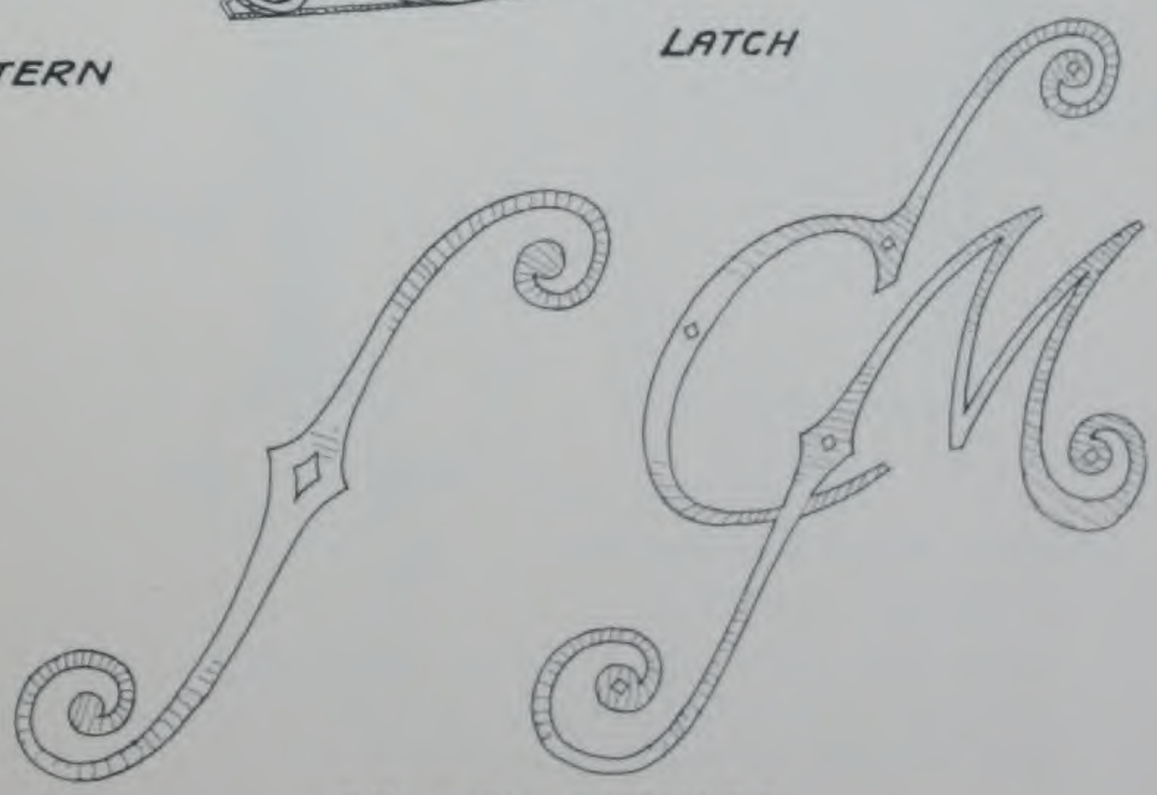
LATCH

LATCH

WEATHERVANE



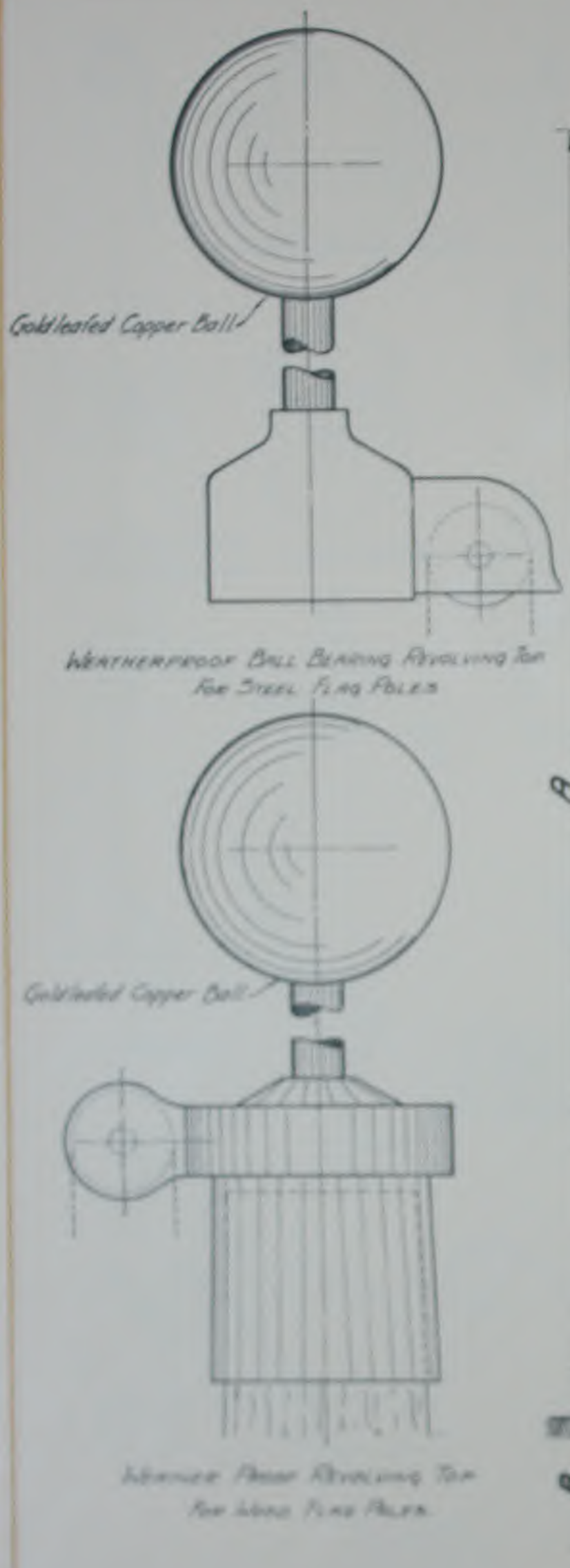
COLLAPSIBLE GATE



CHIMNEY ANCHORS

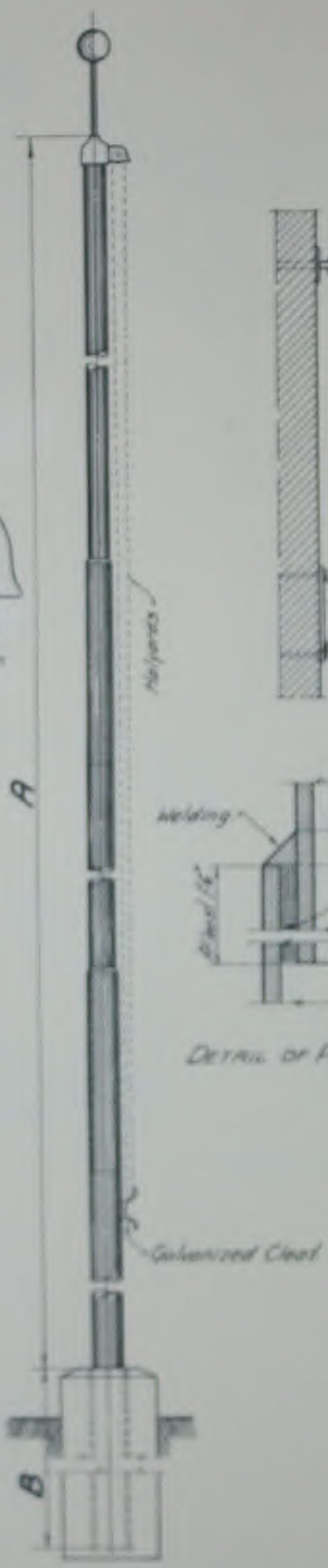
MISCELLANEOUS WROUGHT IRON

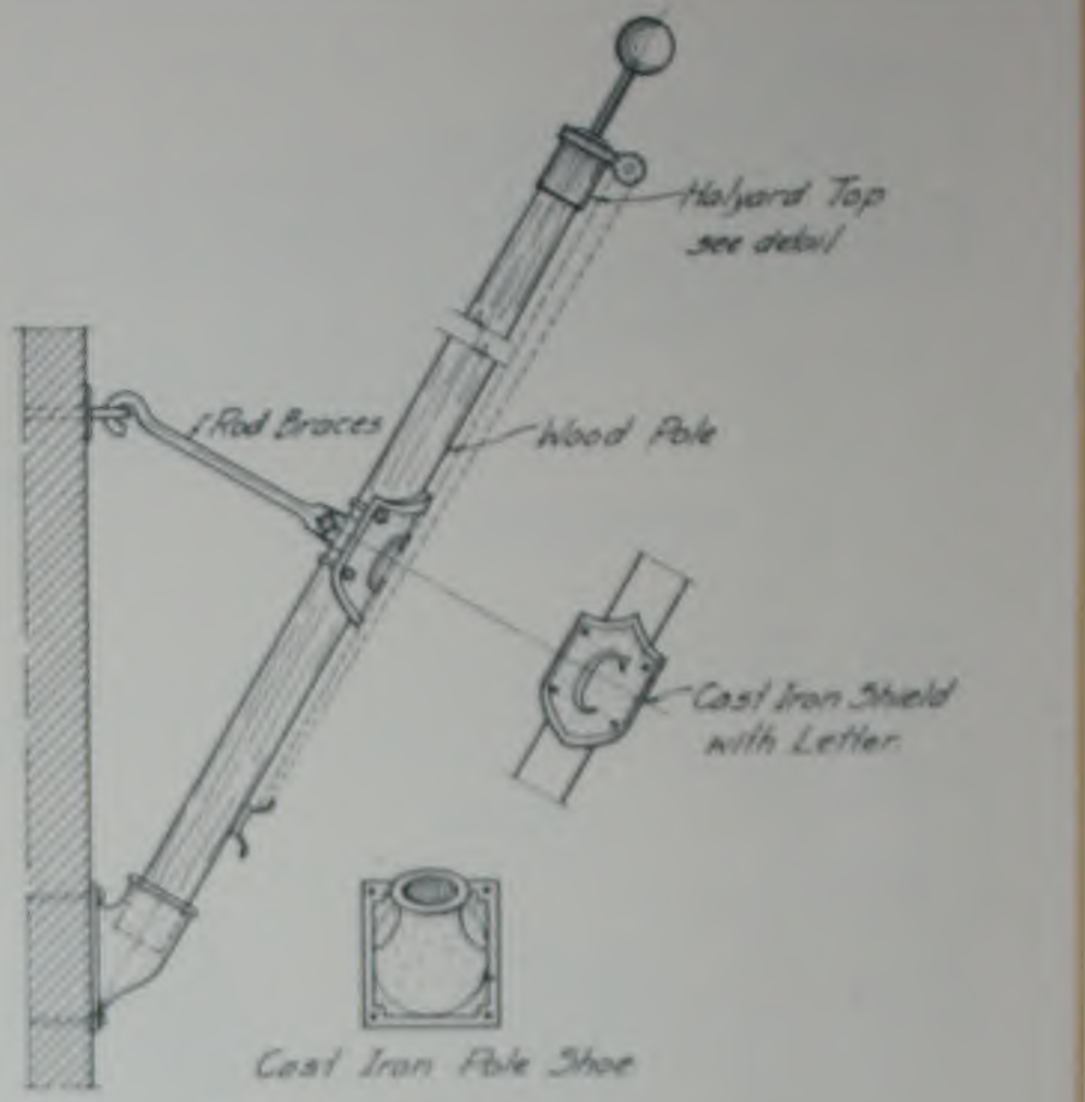
ORNAMENTAL IRON WORK



WEATHERPROOF BALL BEARING REVOLVING TOP FOR STEEL FLAG POLES

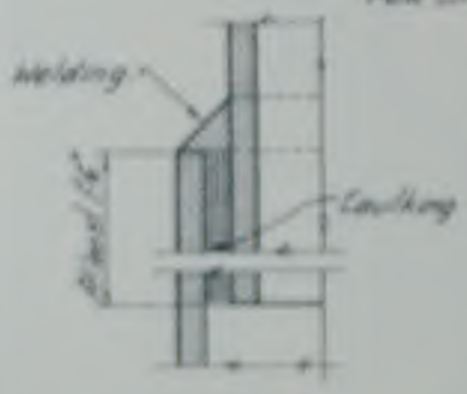
IMPROVED PATENT REVOLVING TOP FOR WOOD FLAG POLES





CAST IRON POLE SHOE

DETAILS OF EQUIPMENT FOR SMALL WOOD POLES.



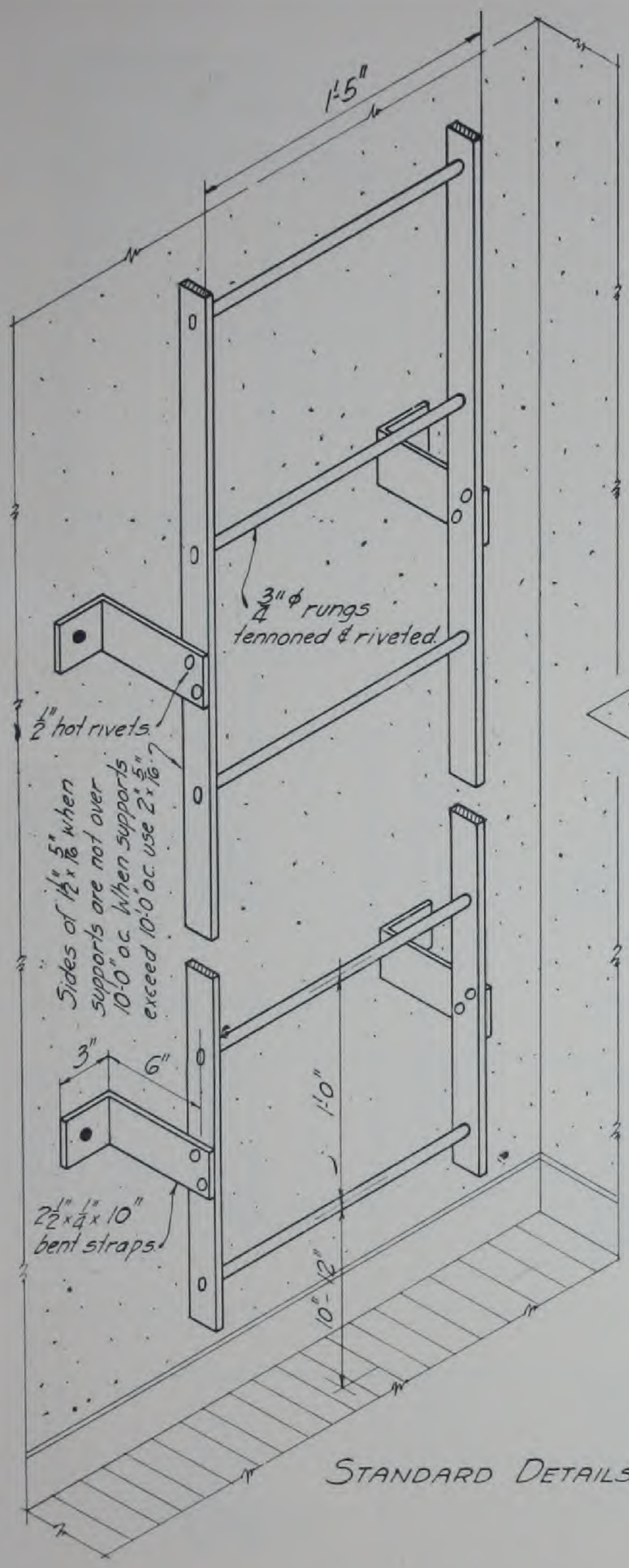
DETAIL OF PIPE JOINT

PIPE SIZES FOR VARYING HEIGHTS							
HEIGHT A	90'0"	85'0"	80'0"	75'0"	70'0"	65'0"	60'0"
BASE B	8'0"	8'0"	5'0"	5'0"	5'0"	5'6"	5'6"
BASE SLEEVE	6'-"	5"	5"	6"	6"	6"	6"
1ST SECTION	8"	8"	8"	8"	8"	8"	8"
2ND SECTION	7"	7"	7"	7"	8"	8"	8"
3RD SECTION		7"	7"	7"	7"	7"	7"
4TH SECTION							7"

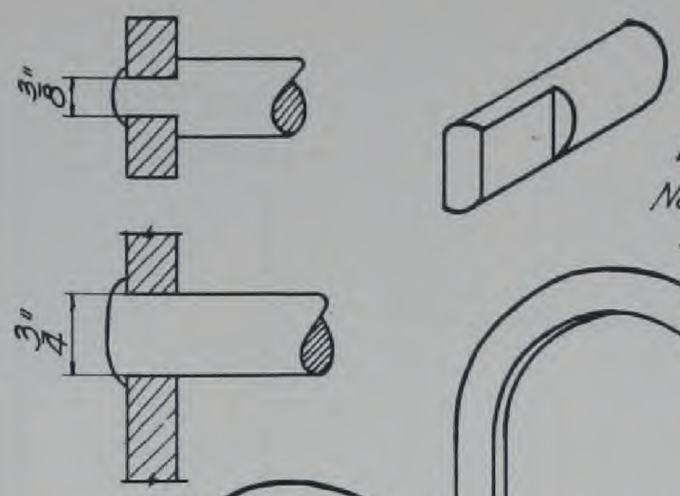
GENERAL NOTES

Unless otherwise specified poles of sizes shown in table will be used. Weatherproof ball bearing revolving top will, unless otherwise specified, be furnished with a 6" diam. spun copper ball with gold leafed finish. All joints are telescoped not less than 18" calked, welded and pinned. Halyard is made of endless red bronze sash chain. When flag poles are to be placed on roofs special brace equipment is furnished to meet the conditions. All poles are painted two shop coats of black graphite paint. Any further information will be furnished on request.

STANDARD FLAG POLES

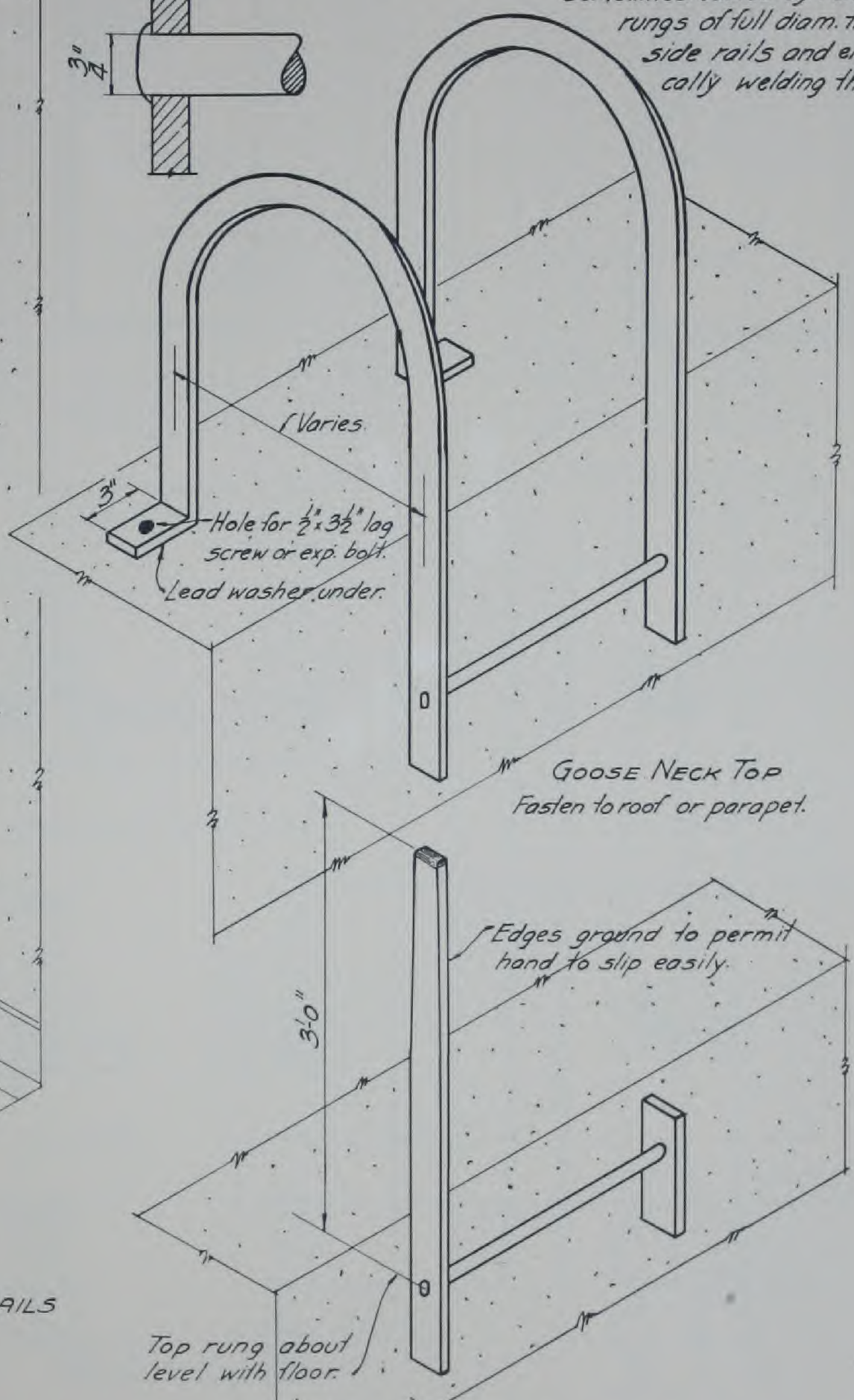


STANDARD DETAILS

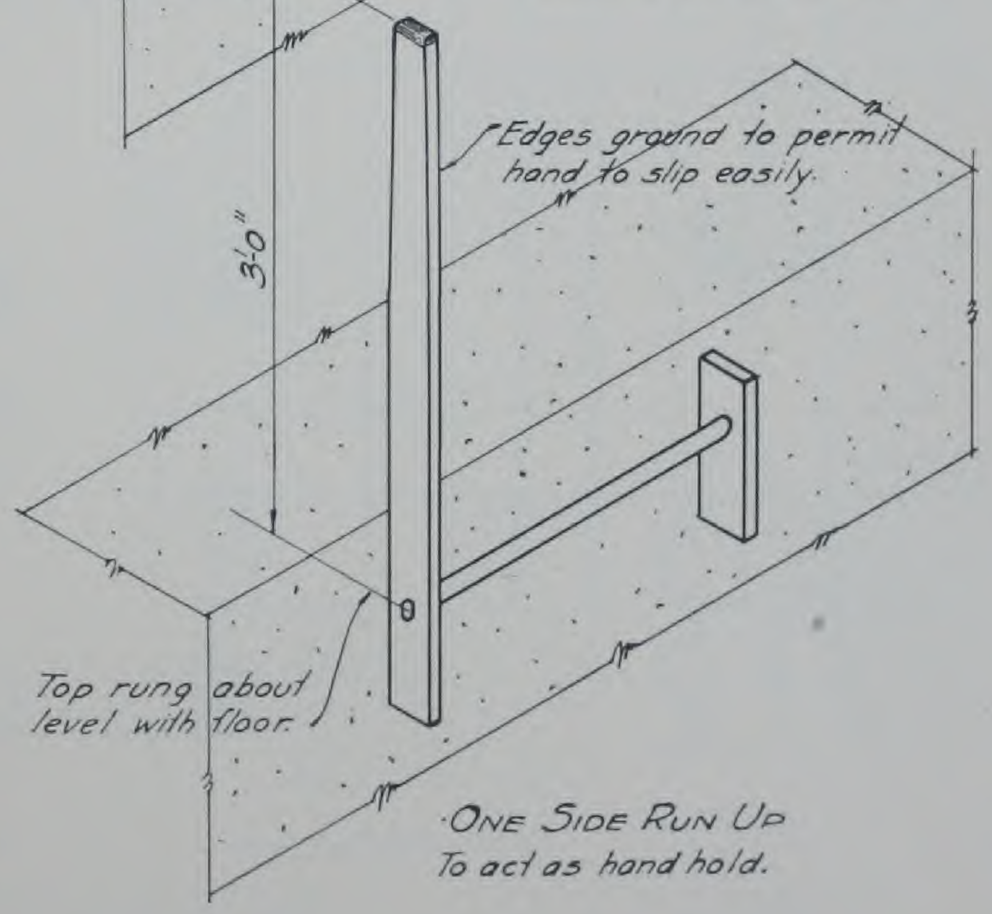


DETAILS OF TENNON

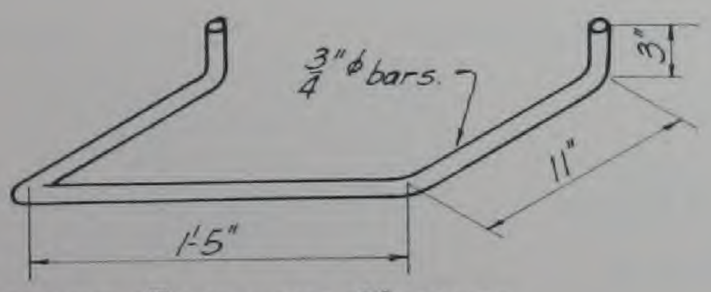
NOTE:- The detail shown is sometimes varied by running rungs of full diam. thru side rails and electrically welding them.



GOOSE NECK TOP
Fasten to roof or parapet.



ONE SIDE RUN UP
To act as hand hold.

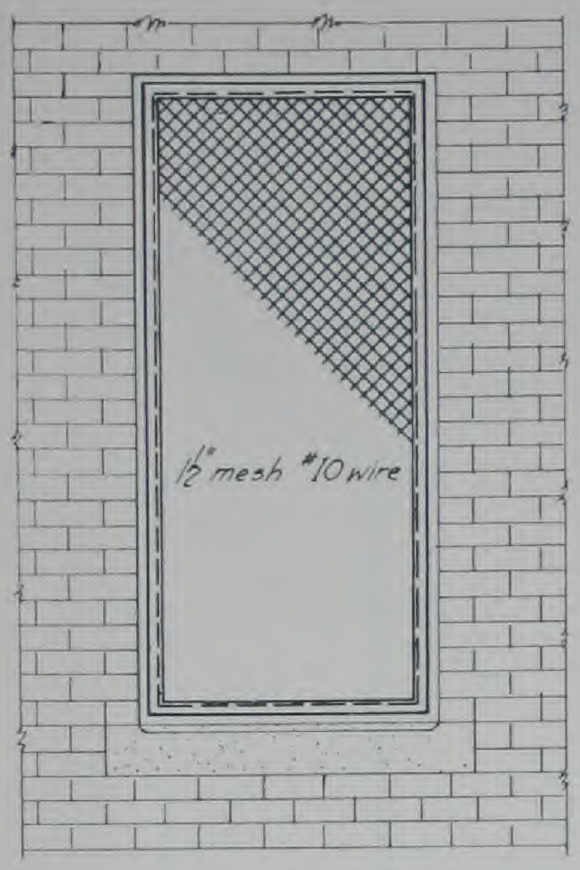


LADDER RUNGS FOR MASONRY

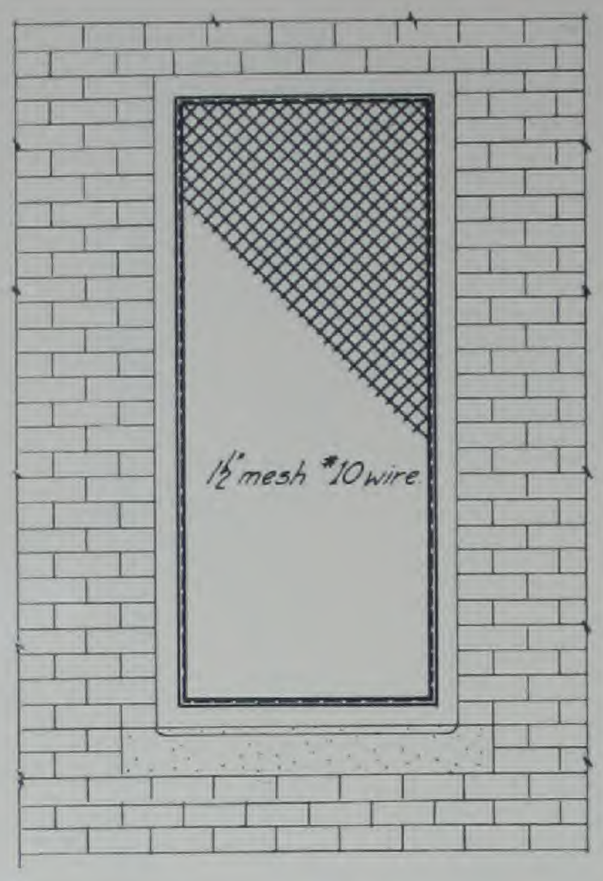
NOTE:- For Fire Ladders Follow State Codes.

NOTE:- The details shown may be varied to suit any conditions or standards other than our own.

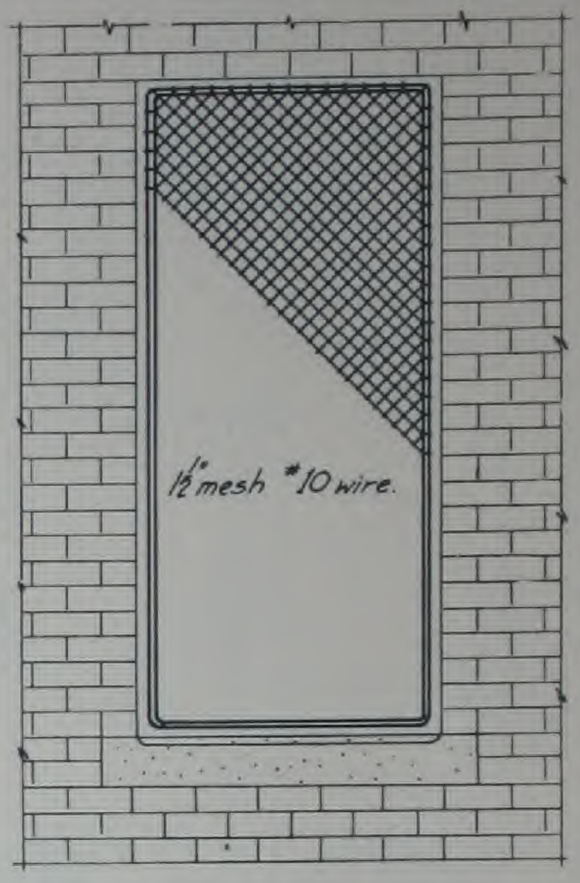
STANDARD LADDERS



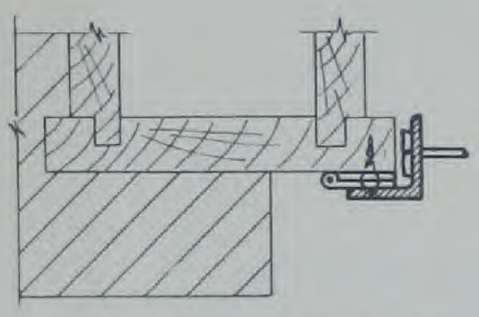
WIRE WINDOW GUARDS
Angle iron frame.



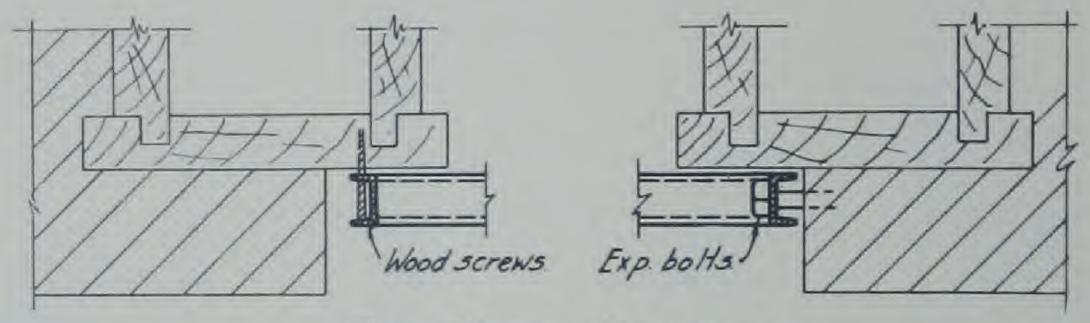
WIRE WINDOW GUARDS
Channel iron frame.



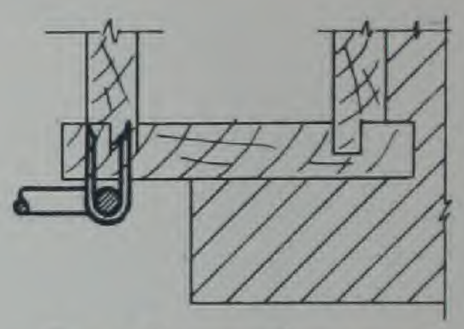
WIRE WINDOW GUARDS
Round bar frame



METHOD OF ATTACHING HINGES



FIXED GUARD ANCHORAGE



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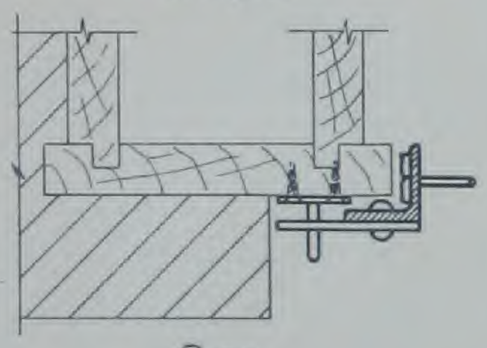
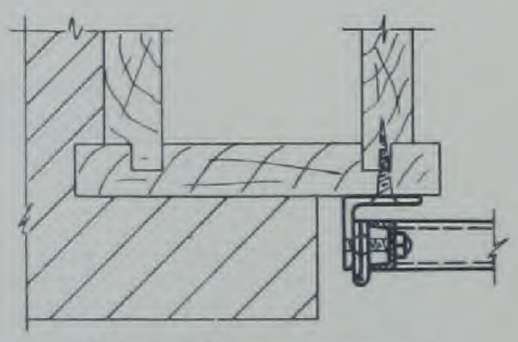
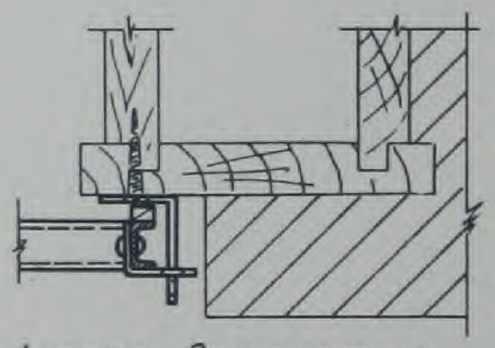


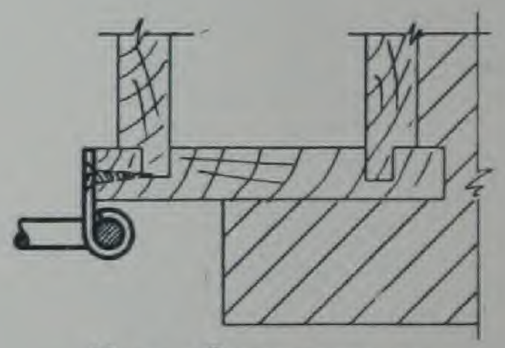
PLAN



HINGE ARRANGEMENT



LOCKING ARRANGEMENT



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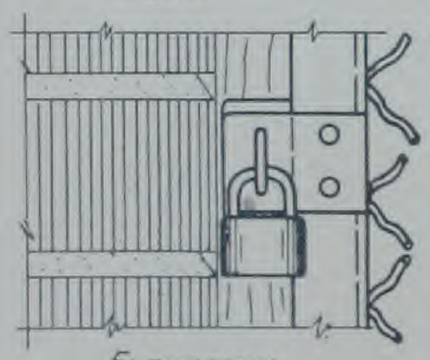
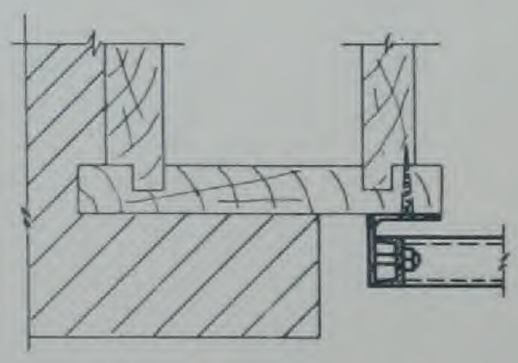
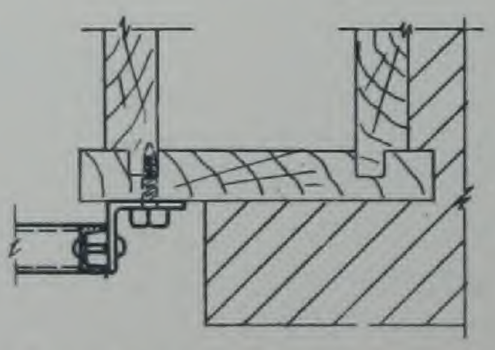


ELEVATION
LOCKING ARRANGEMENT



HINGE ARRANGEMENT



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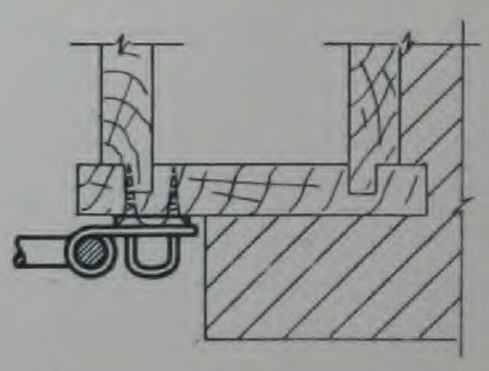

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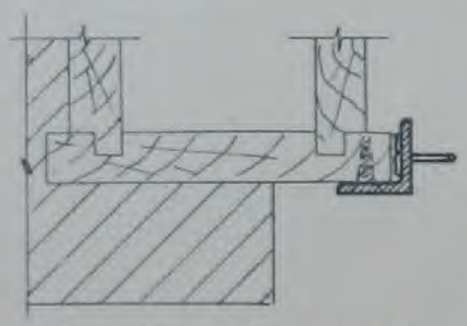
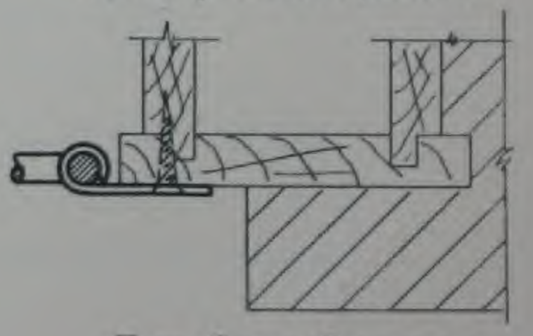


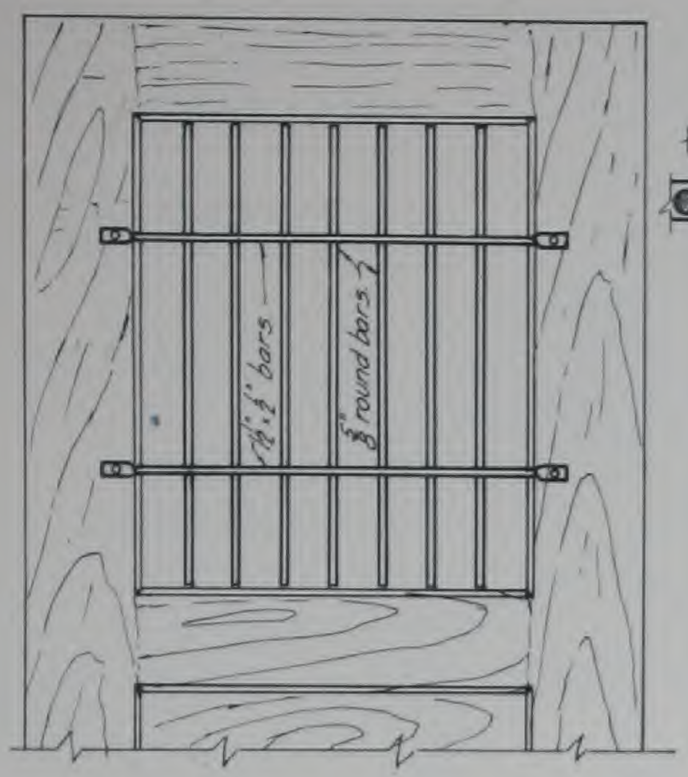
FIXED GUARD ANCHORAGE

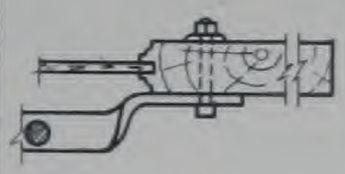
WIRE WINDOW GUARDS
STANDARD DETAILS

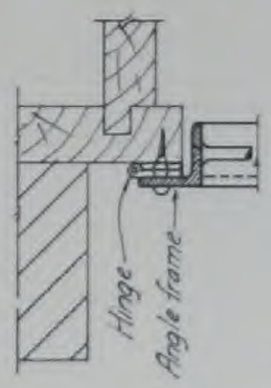
We can also furnish special wire work of any character & including partitions & fences.

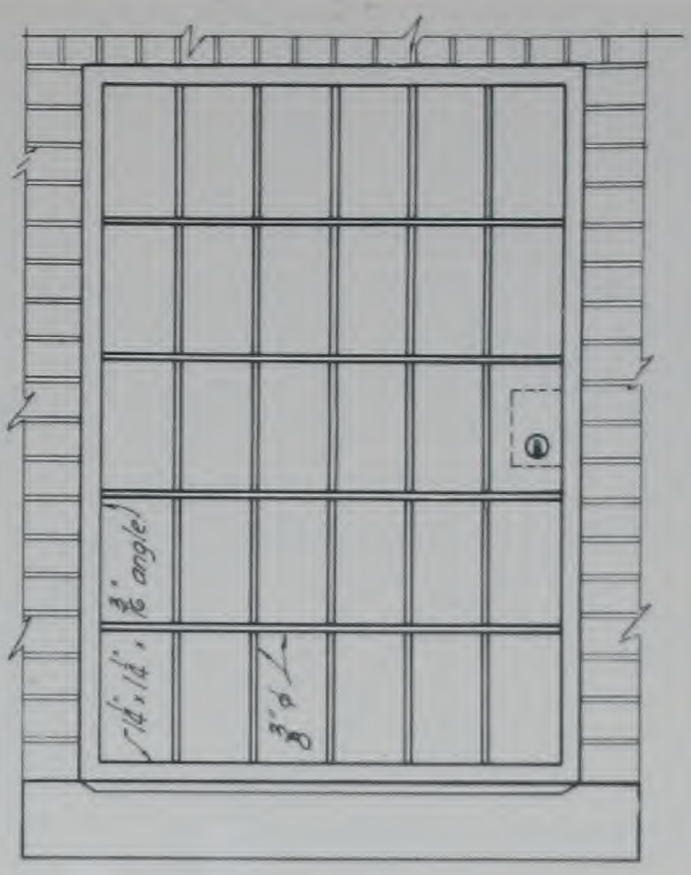


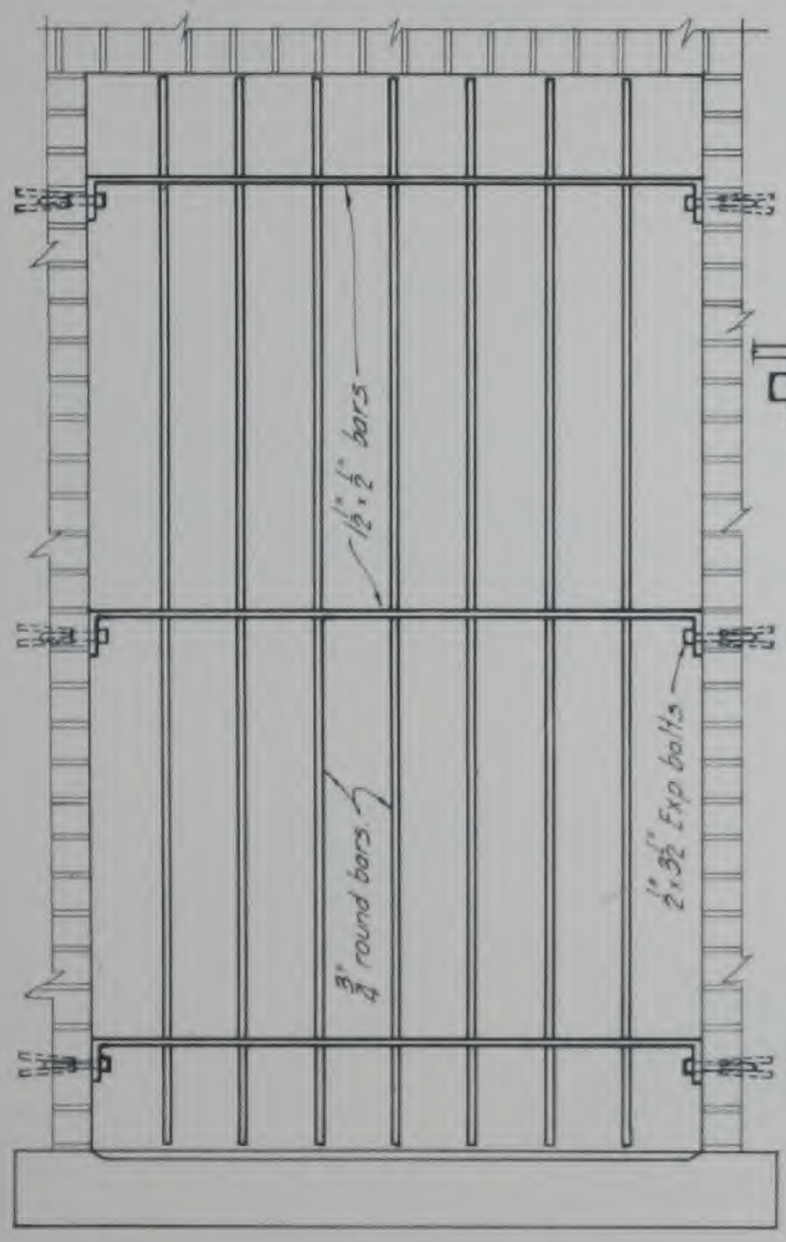
FIXED GUARD ANCHORAGE

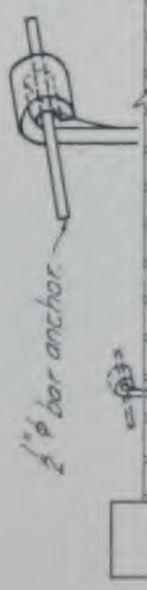


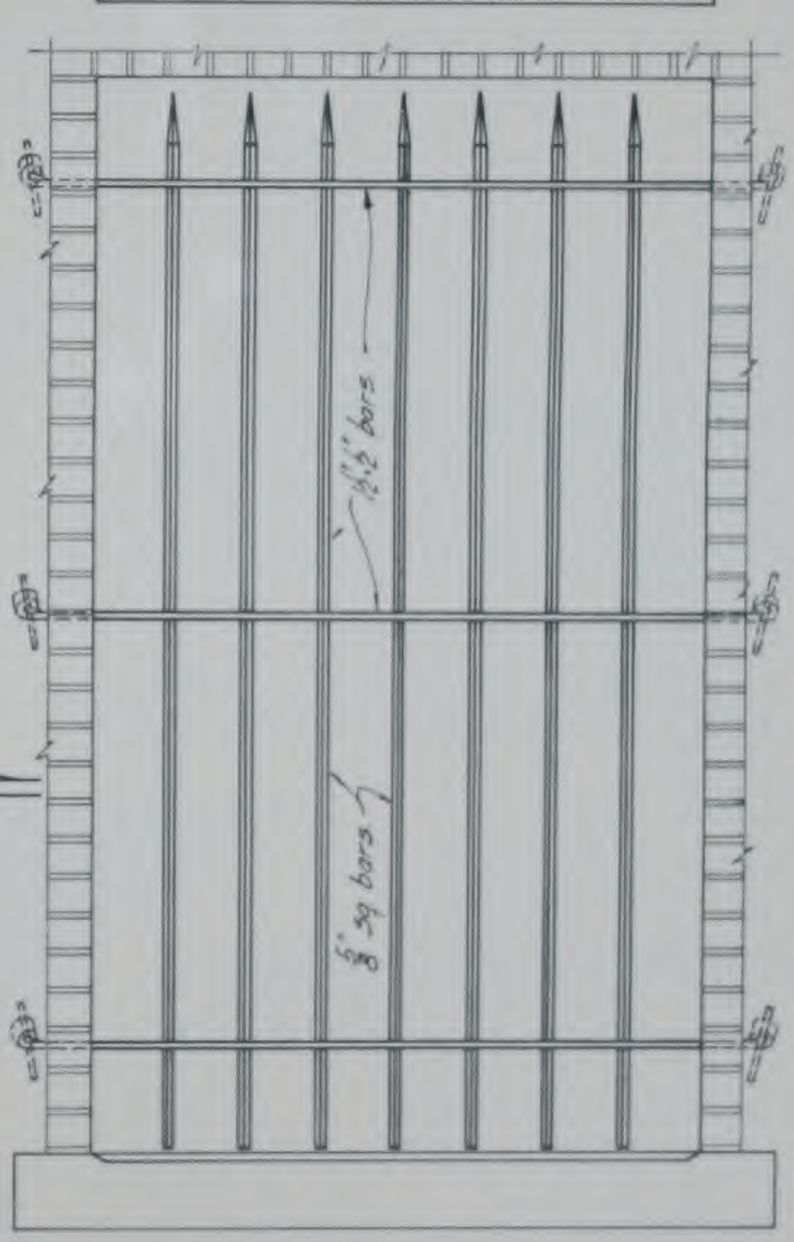


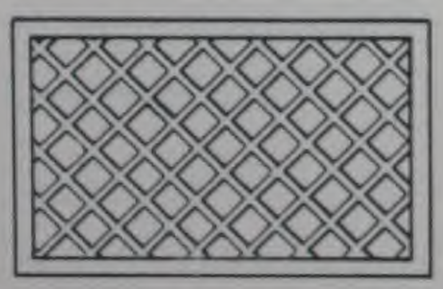






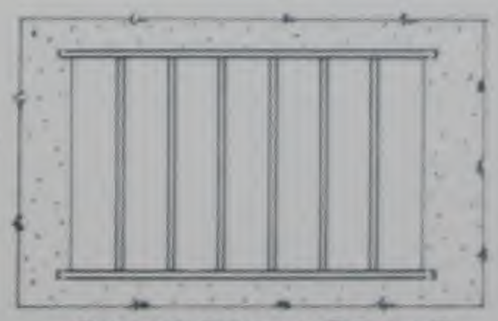






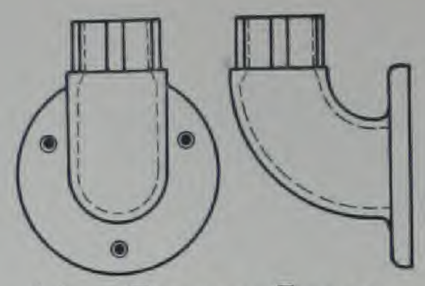
FOUNDATION GRILLE

MISCELLANEOUS
DOOR AND WINDOW GUARDS
AND
GRILLES

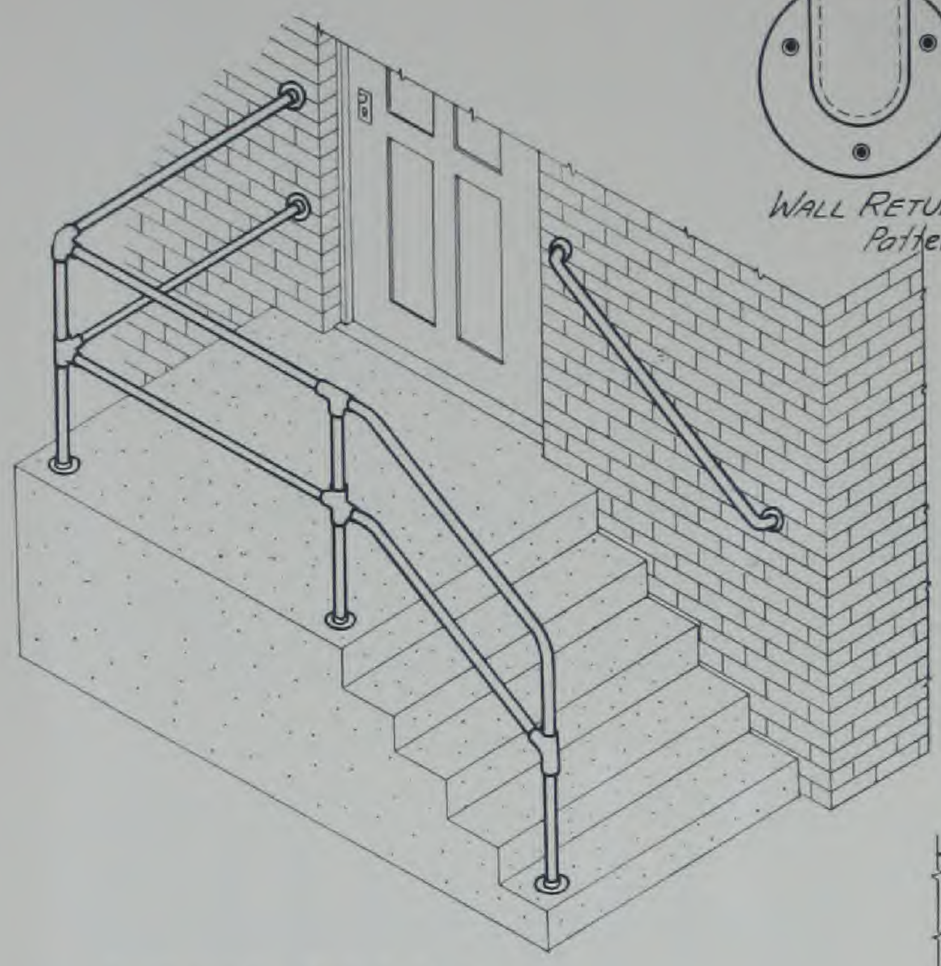


FOUNDATION GRILLE

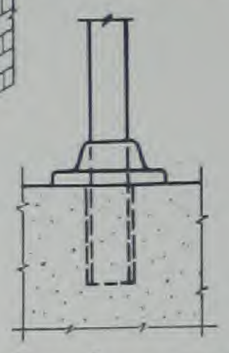
ORNAMENTAL IRON WORK



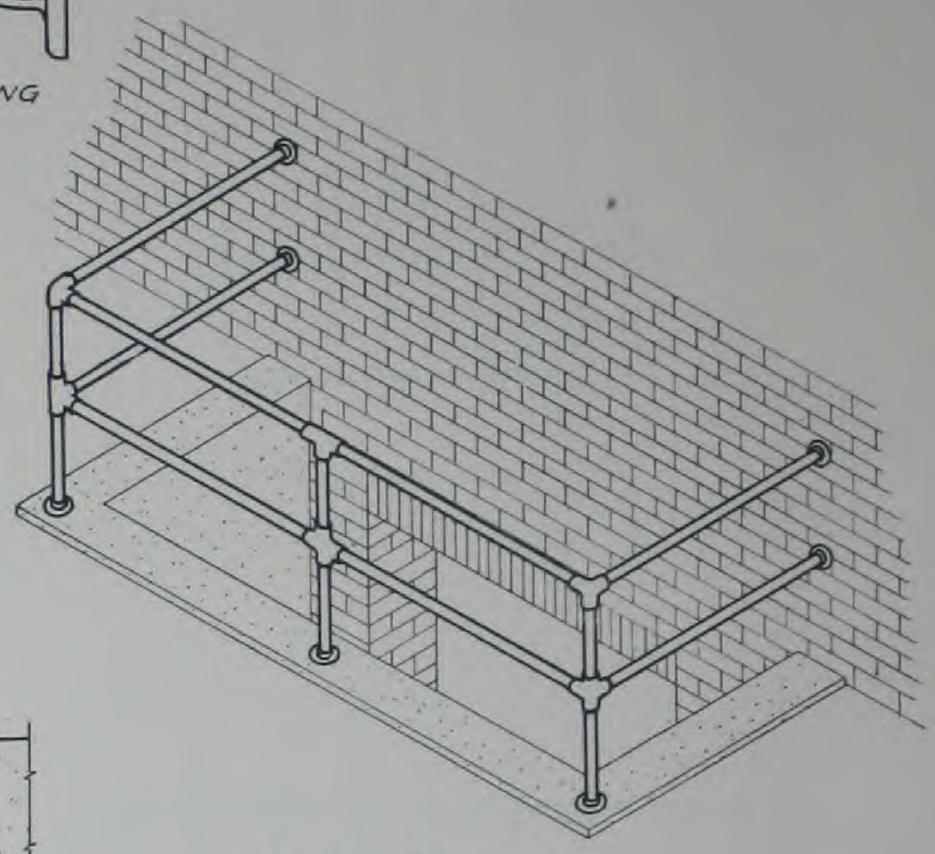
WALL RETURN FITTING
Pattern No 1



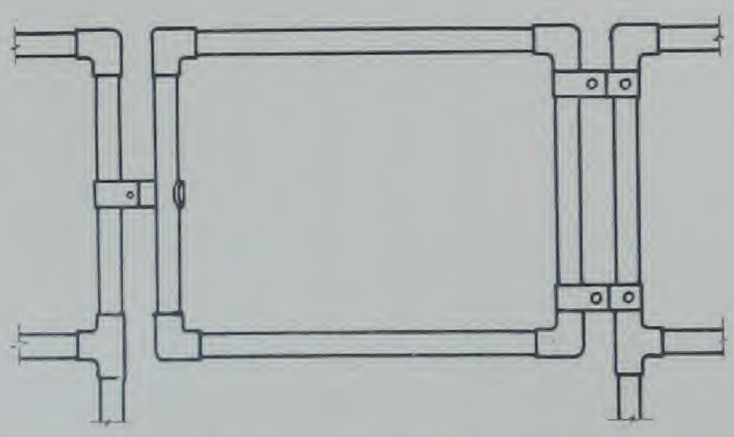
EXTERIOR STAIR RAILS



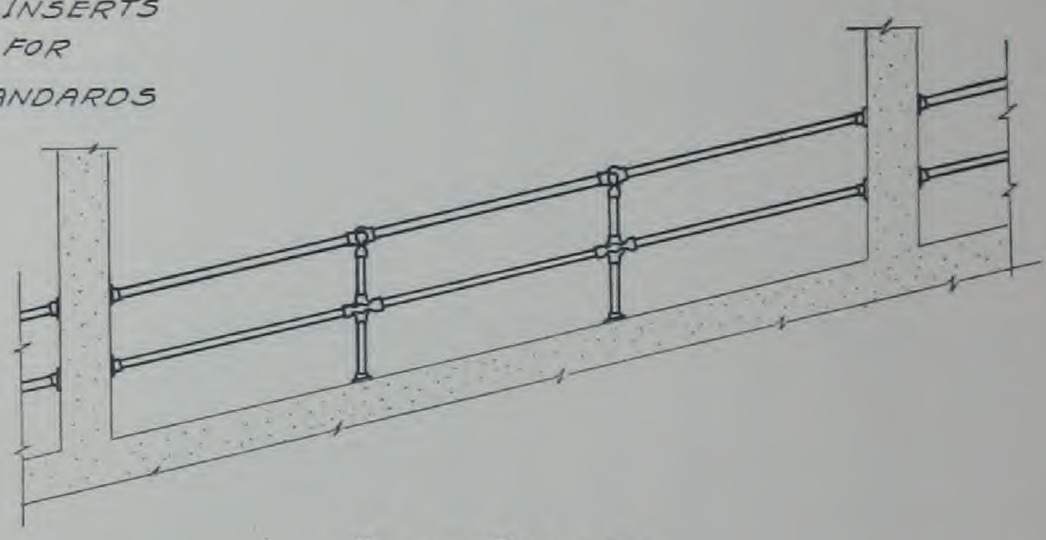
CUP INSERTS
FOR
STANDARDS



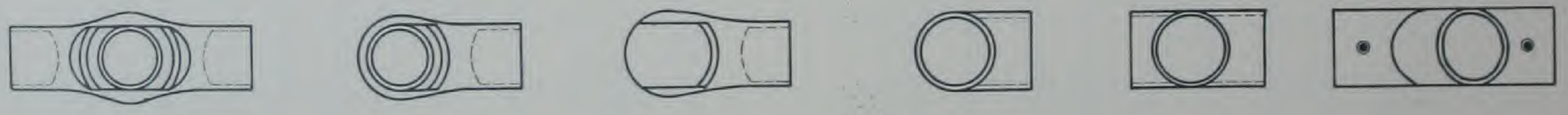
AREA RAILINGS

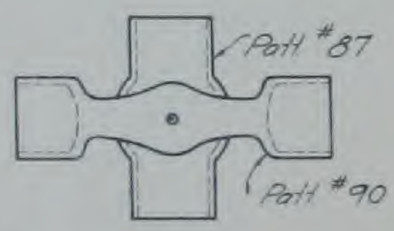


DETAIL OF GATE

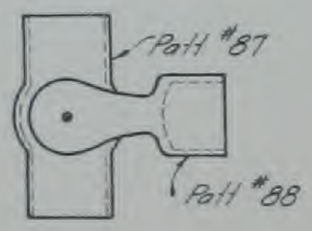


RAMP RAILINGS.

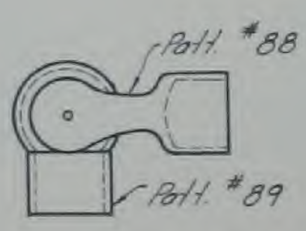




ADJUSTABLE CROSS



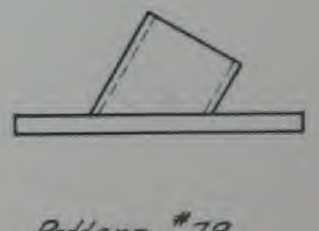
ADJUSTABLE TEE



ADJUSTABLE ELL

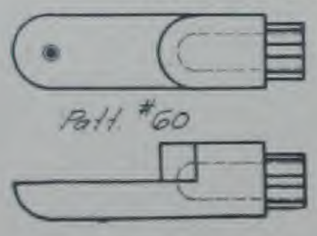
Pattern #25
BEVEL TEE

Pattern #26
BEVEL CROSS



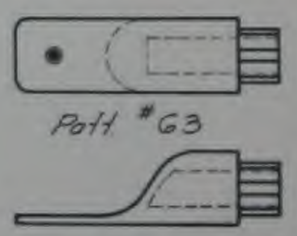
Pattern #79
BEVEL FLANGE

Note - Patent applied for on these fittings.



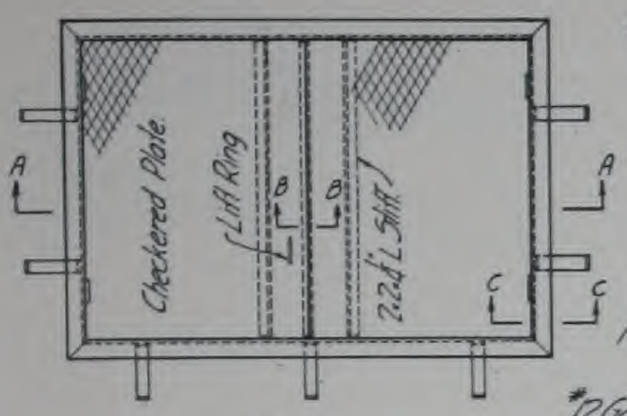
NEWEL POST CONNECTION

STANDARD PIPE RAILS AND FITTINGS



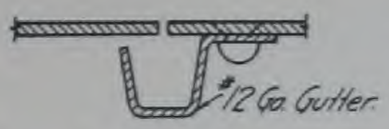
NEWEL POST CONNECTION.

THE BUILDING PRODUCTS CO.

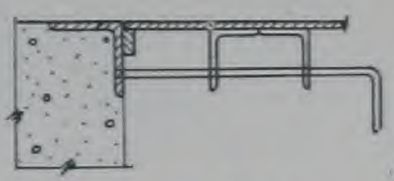


PLAN

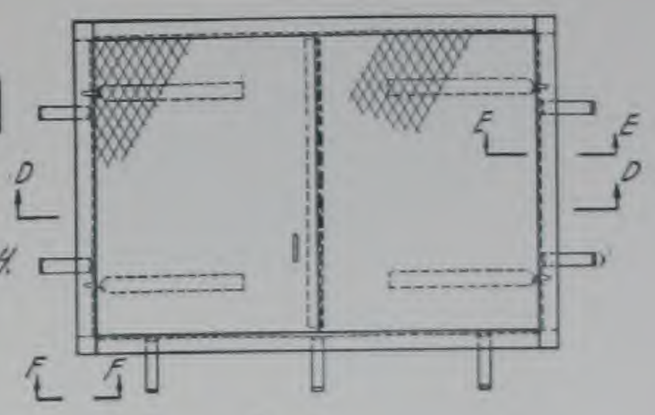
STANDARD SIDEWALK DOOR TYPE A



SECTION BB

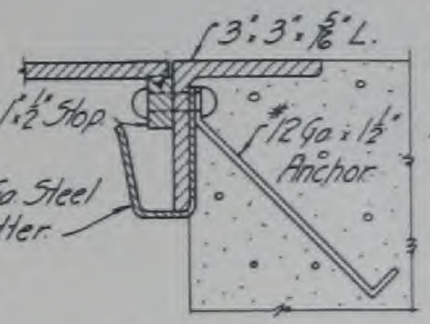


DETAIL OF LOCK

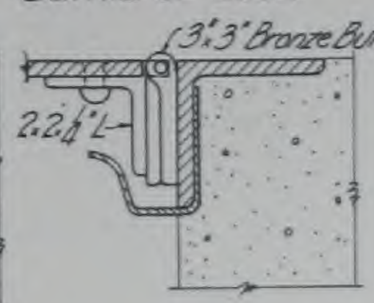


PLAN

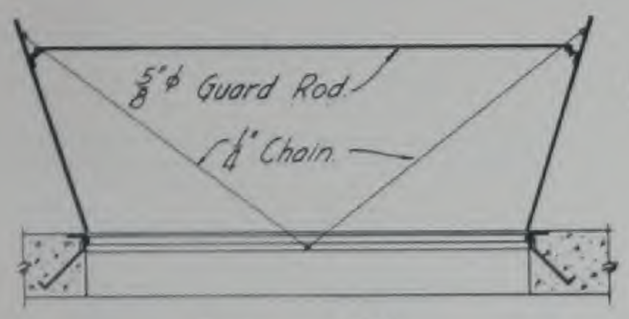
STANDARD SIDEWALK DOOR TYPE B



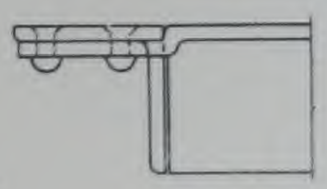
SECTION CC



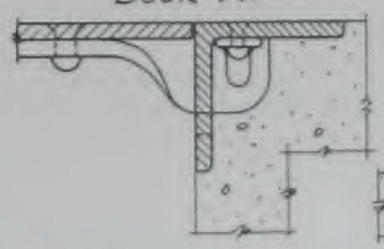
DETAIL OF HINGE DOOR A.



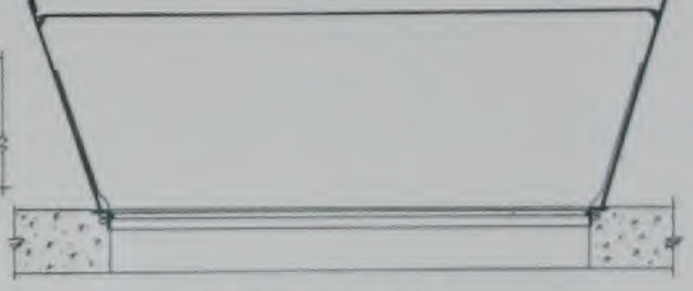
SECTION AA



SECTION FF



SECTION EE



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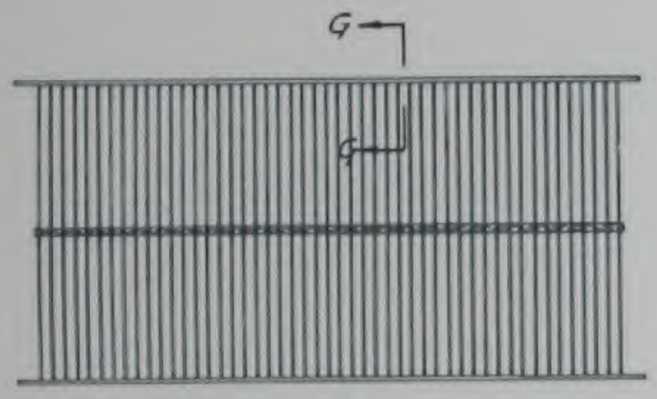
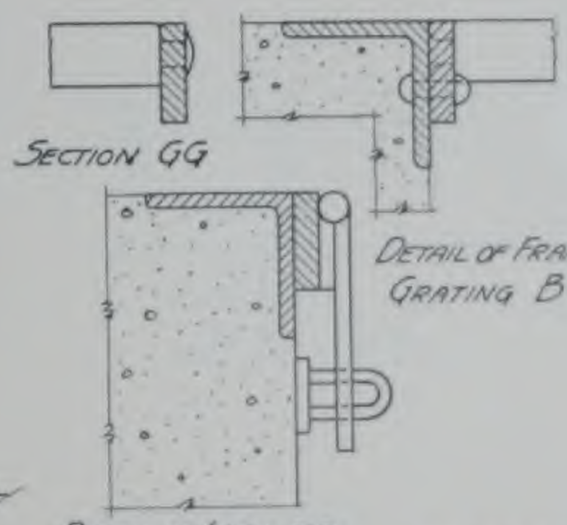
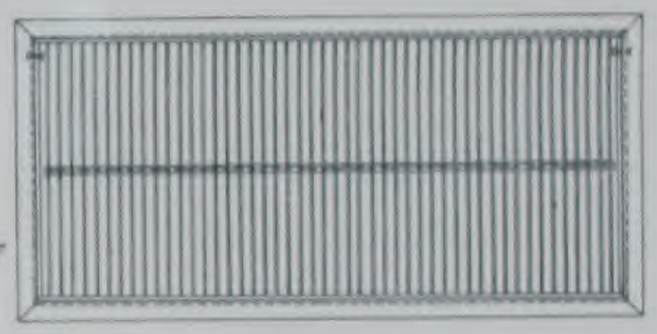


STANDARD AREA GRATING TYPE A

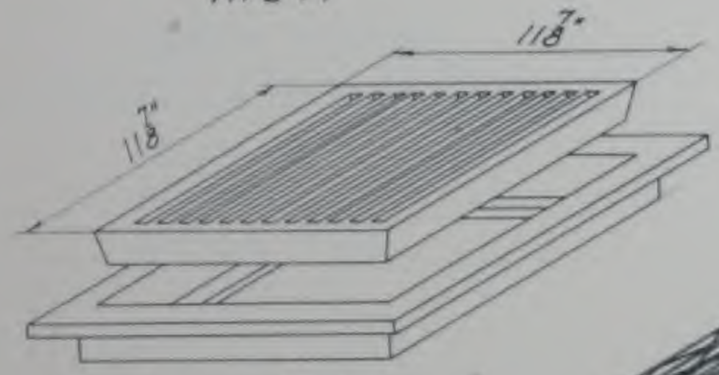


SECTION GG

DETAIL OF FRAME GRATING B

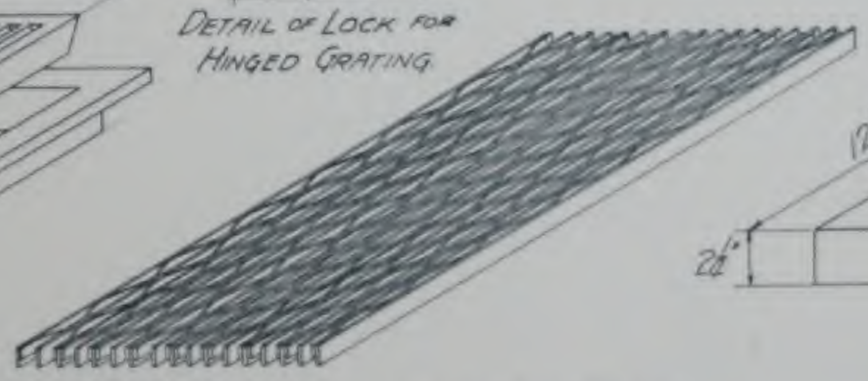


STANDARD AREA GRATING WITH ANGLE FRAME TYPE B

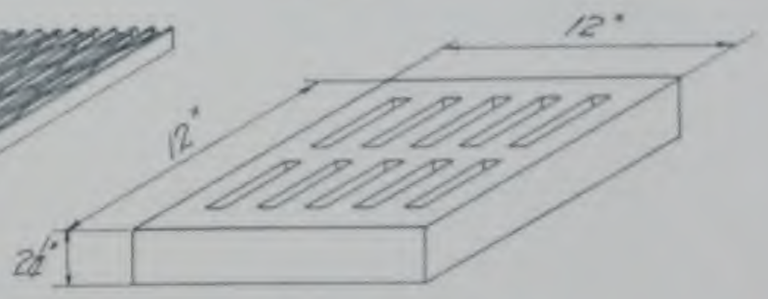


SUMP GRATING & FRAME Patterns #10 & #11

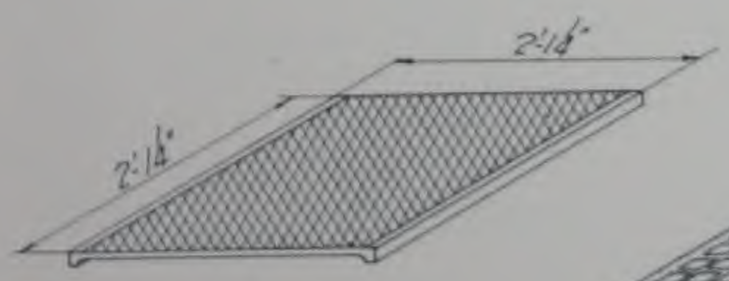
DETAIL OF LOCK FOR HINGED GRATING



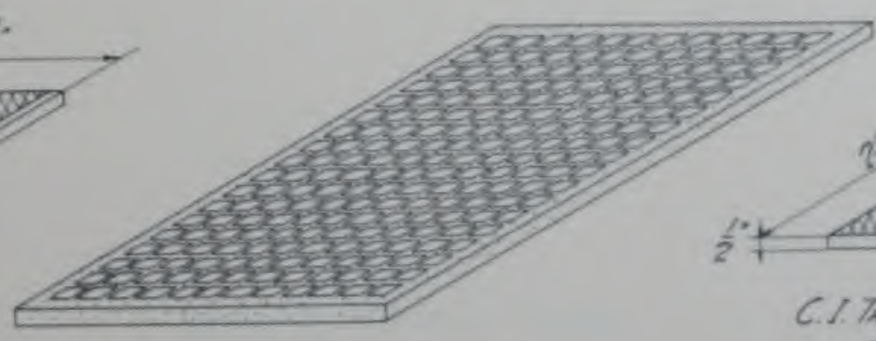
PATENTED GRATINGS OF ALL MAKES.



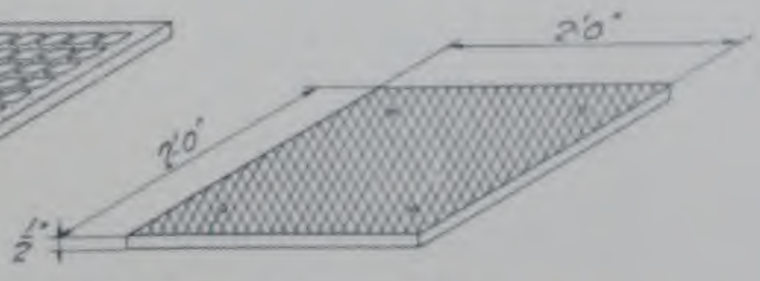
SUMP GRATING Pattern #44



C.I. TRENCH COVER PLATE Pattern #49

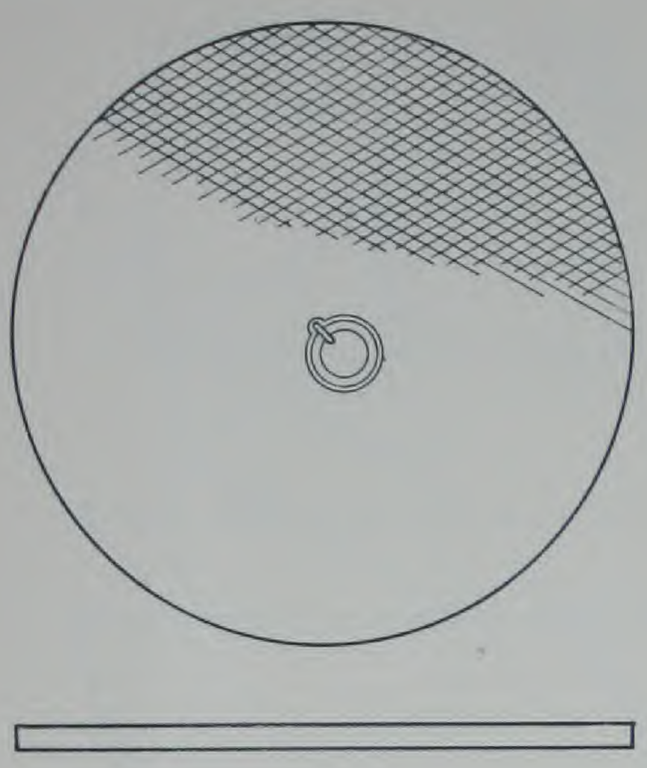


SIDEWALK & VAULT LIGHTS.



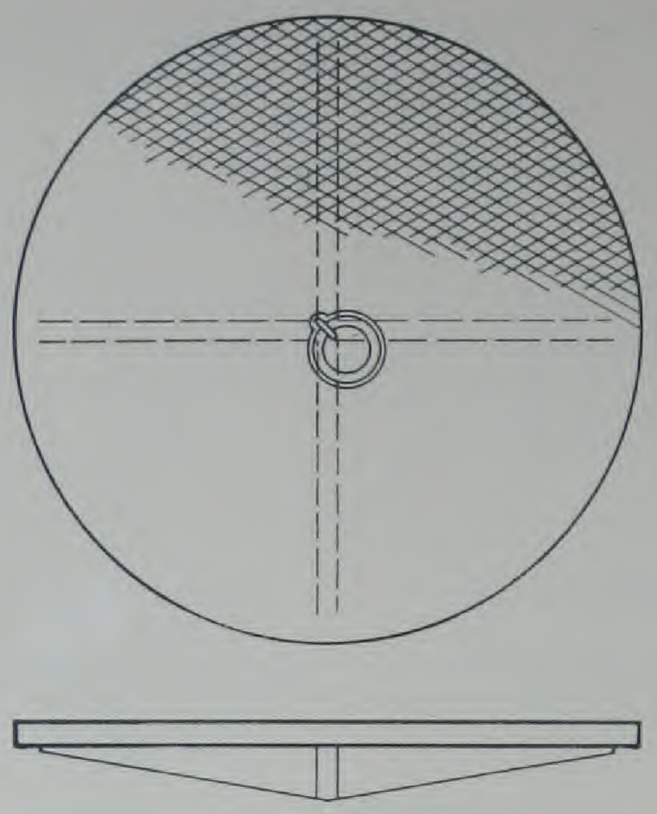
C.I. TRENCH COVER PLATE Pattern #91

-: MISCELLANEOUS SIDEWALK EQUIPMENT :-



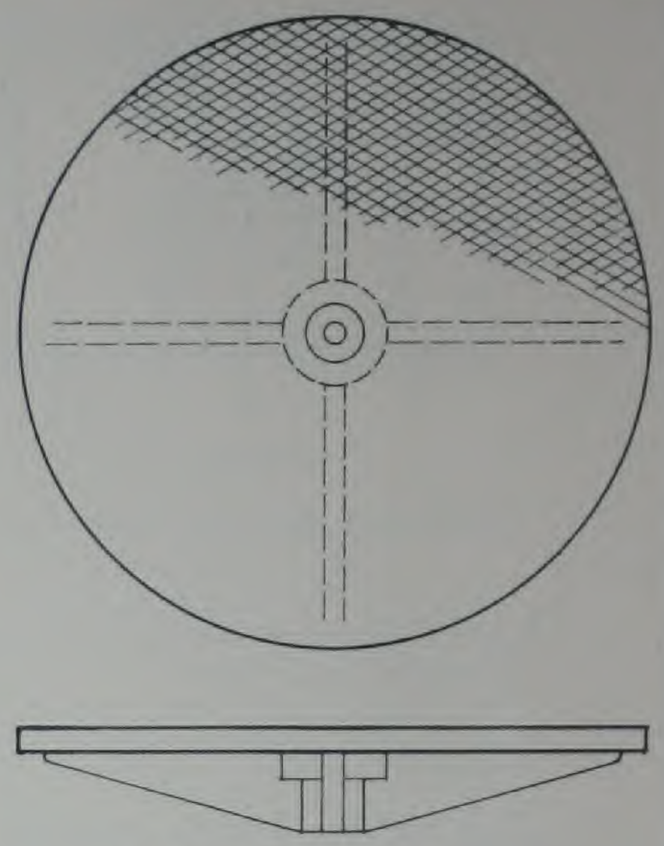
LIGHT COVERS.

20" Diam. Pattern # 13
24" Diam. Pattern # 15
30" Diam. Pattern # 17



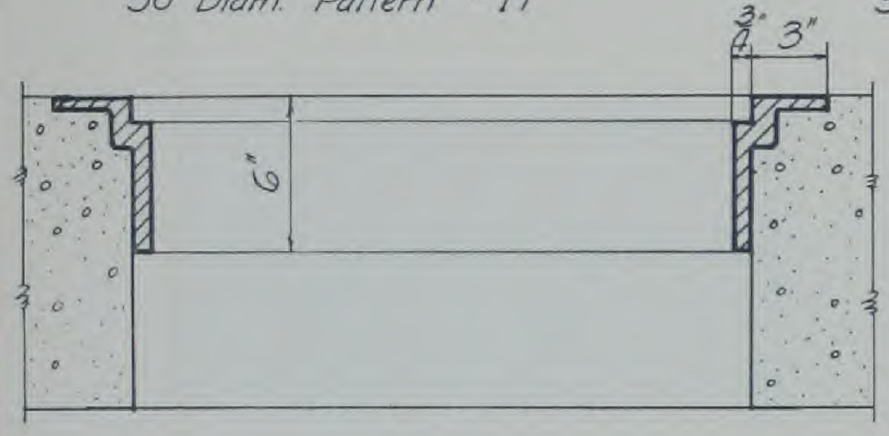
HEAVY COVERS.

20" Diam. Pattern # 18
24" Diam. Pattern # 19
30" Diam. Pattern # 20



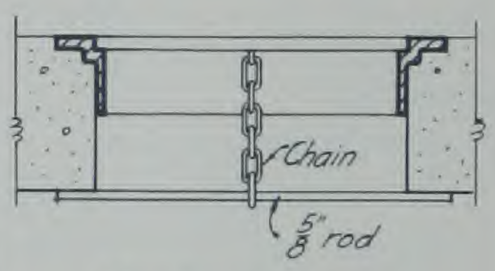
HEAVY COVER.

24" Diam. Pattern # 122

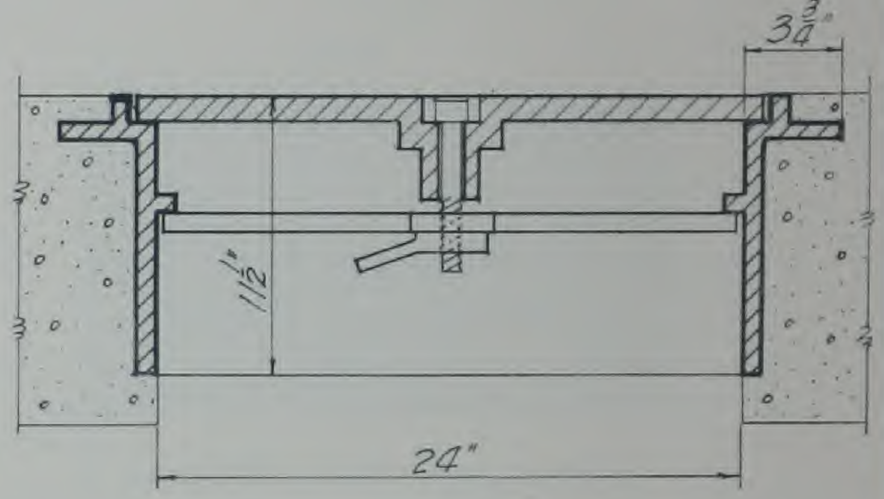


STANDARD RING.

20" Diam. Pattern # 12
24" Diam. Pattern # 14
30" Diam. Pattern # 16

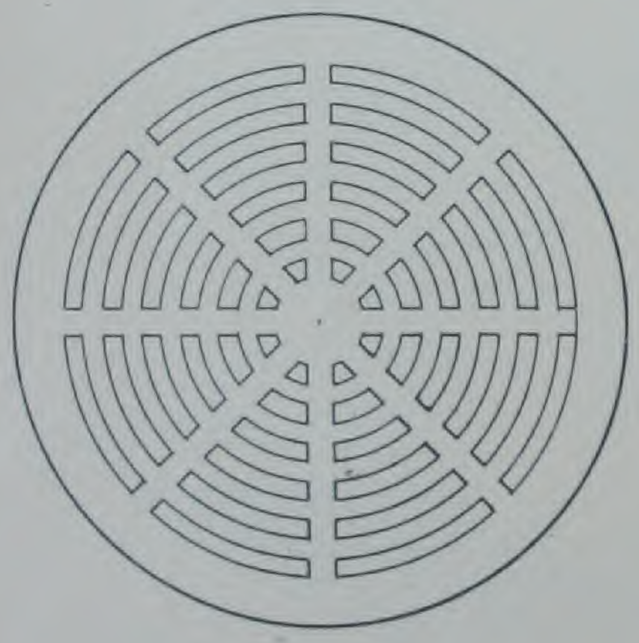


DETAIL OF LOCK



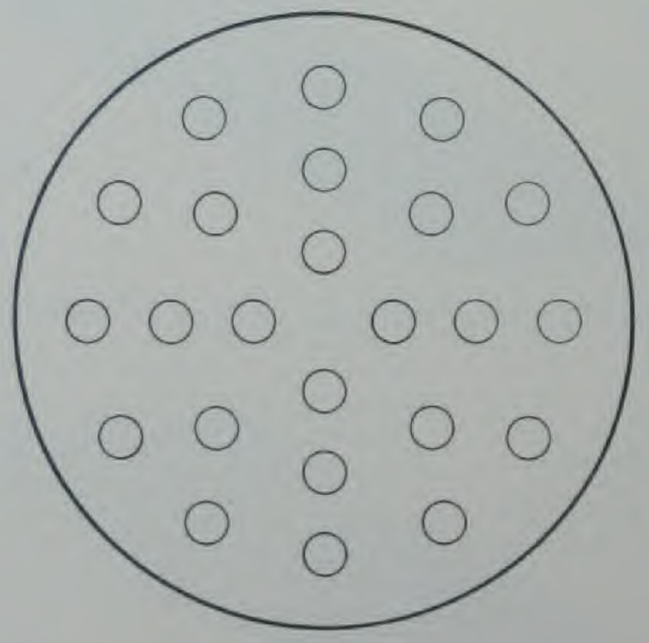
HEAVY RING.

24" Diam. Pattern # 123



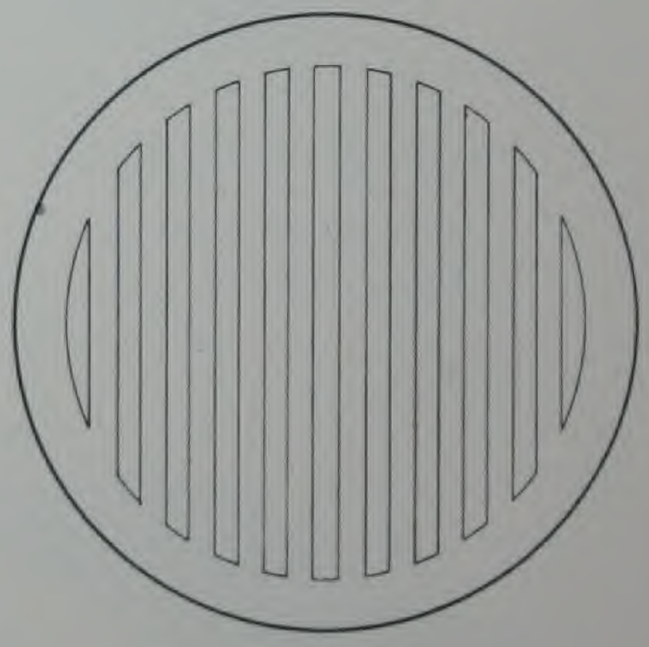
SLOTTED COVER

Standard Sizes



VAULT LIGHT COVER

Standard Sizes.

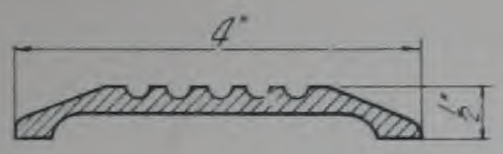


SLOTTED COVER

Standard Sizes.

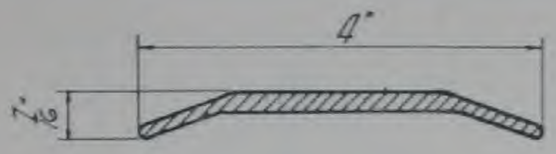
STANDARD MANHOLE COVERS & RINGS

THE BUILDING PRODUCTS CO.



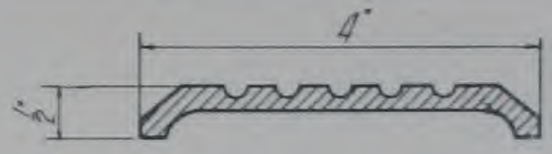
Extruded Brass

STYLE #1



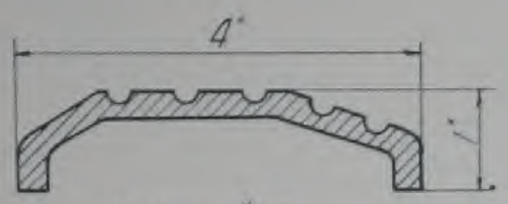
Extruded Brass

STYLE #2



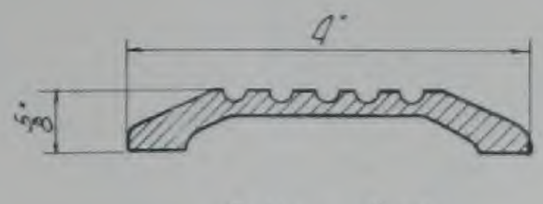
Steel.

STYLE #3



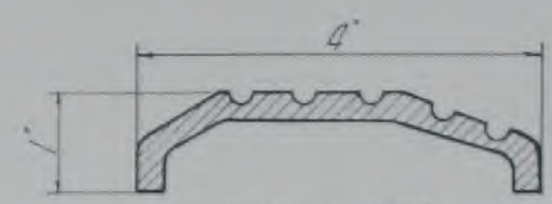
Pattern #39
Cast Iron

STYLE #4



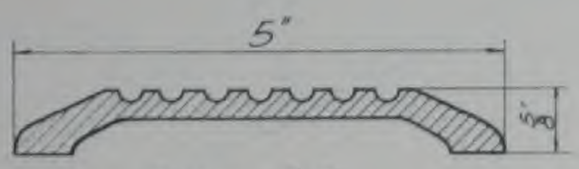
Pattern #57
Cast Iron

STYLE #5



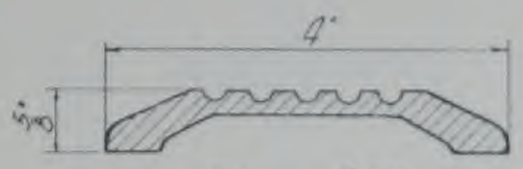
Pattern #39
Cast Bronze

STYLE #6



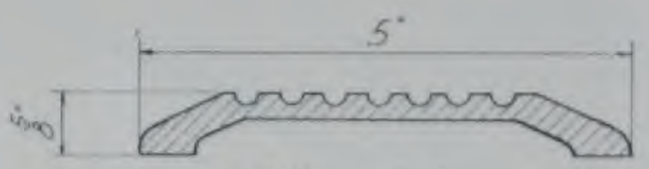
Pattern #4
Cast Iron

STYLE #7



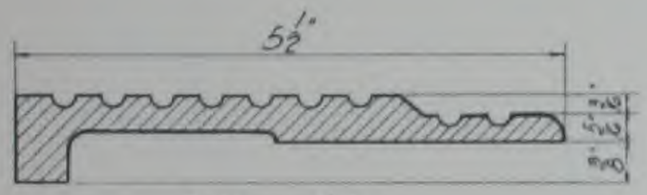
Pattern #57
Cast Bronze

STYLE #8



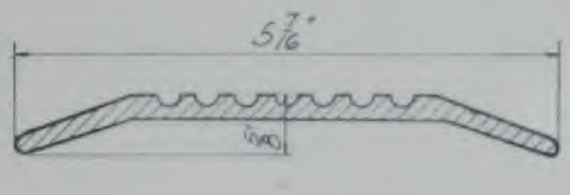
Pattern #4
Cast Bronze

STYLE #9



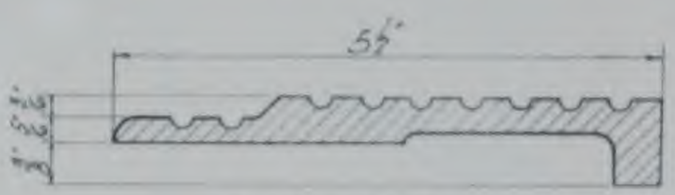
Pattern #80
Cast Iron

STYLE #10



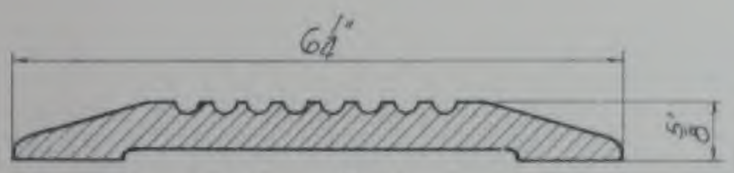
Steel

STYLE #11



Pattern #80
Cast Bronze

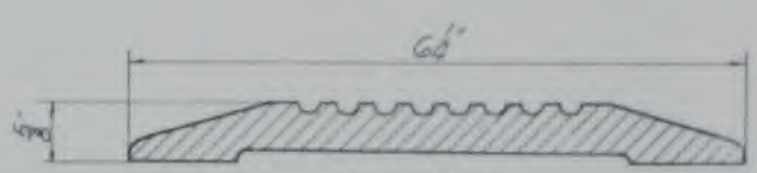
STYLE #12



Pattern #78
Cast Iron

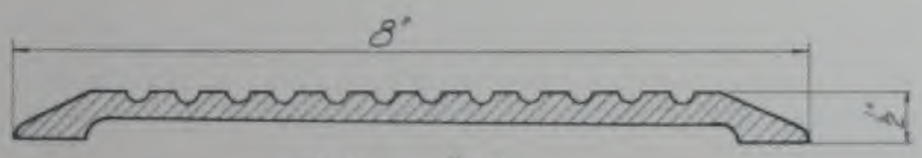
STYLE #13

All types of Safety Treads



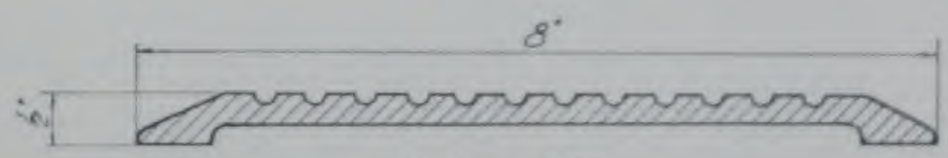
Pattern #78
Cast Bronze

STYLE #14



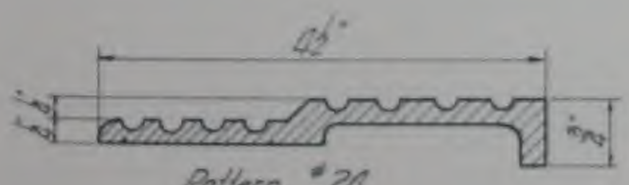
Pattern #77
Cast Iron

STYLE #15



Pattern #77
Cast Bronze

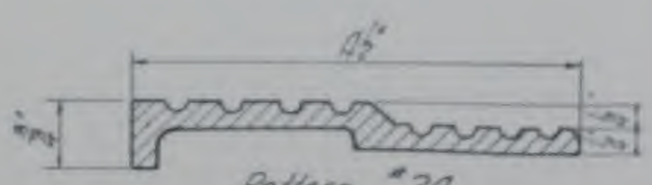
STYLE #16



Pattern #24
Cast Iron

STYLE #17

Standard Nosings

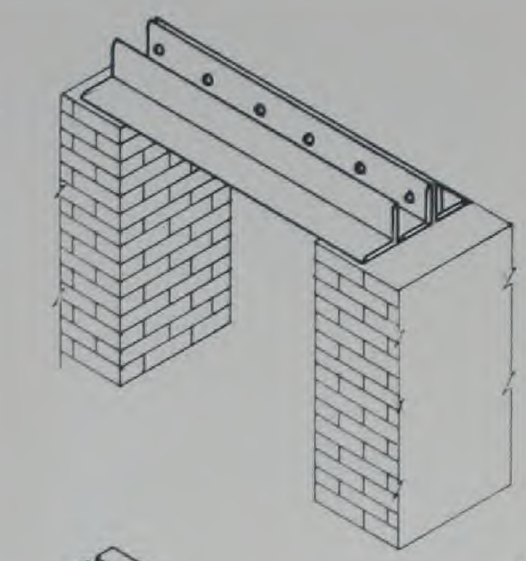


Pattern #24
Cast Bronze.

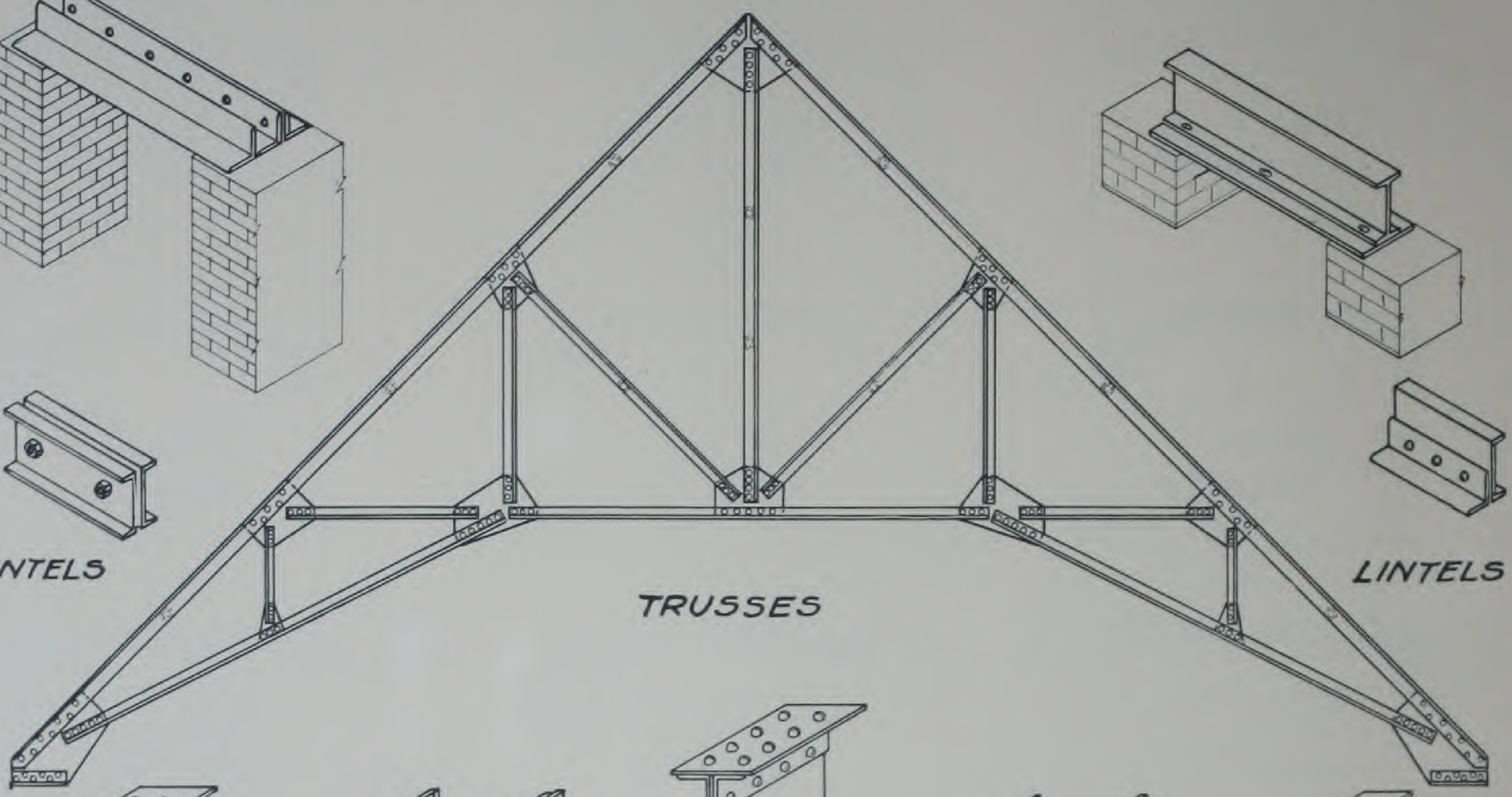
STYLE #18

STANDARD STOCK THRESHOLDS

ORNAMENTAL IRON WORK

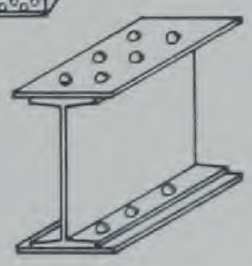


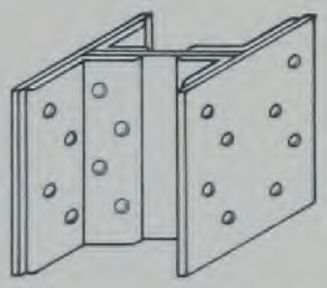
LINTELS

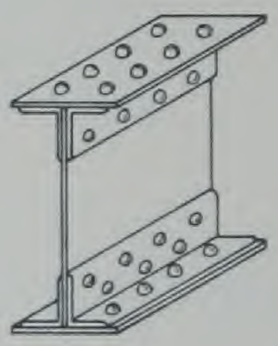


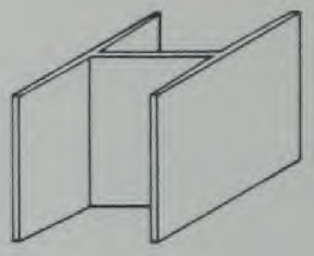
TRUSSES

LINTELS









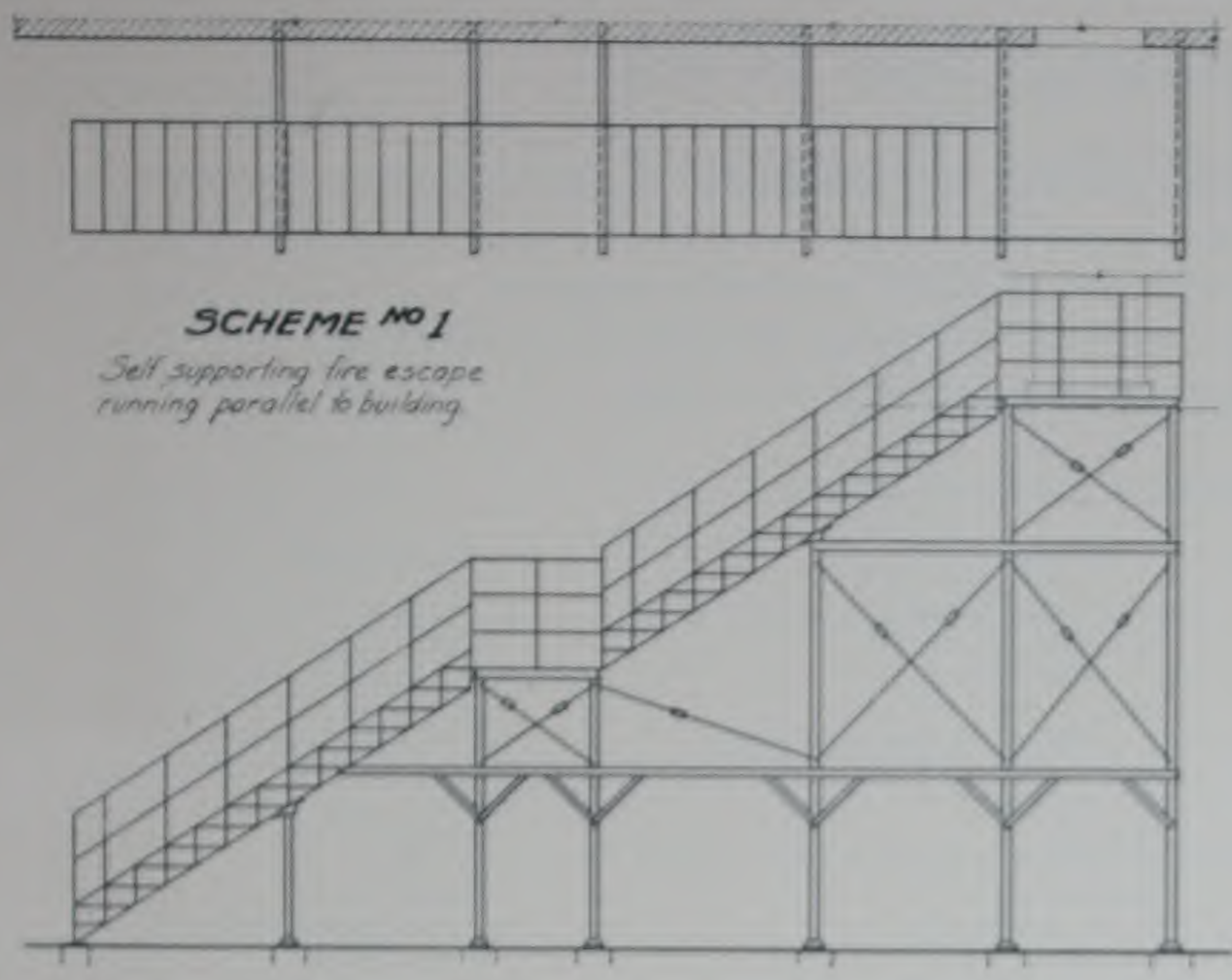
GIRDERS - BEAMS - COLUMNS

STANDARD LINTEL SCHEDULE

SPAN	5'-0" 9" WALL	WT	5'-0" 13" WALL	WT	6'-0" 9" WALL	WT	6'-0" 13" WALL	WT	7'-0" 9" WALL	WT	7'-0" 13" WALL	WT	8'-0" 9" WALL	WT	8'-0" 13" WALL	WT	9'-0" 9" WALL	WT	9'-0" 13" WALL	WT	10'-0" 9" WALL	WT	10'-0" 13" WALL	WT	11'-0" 9" WALL	WT	11'-0" 13" WALL	WT
LENGTH	6'-4"		6'-4"		7'-4"		7'-4"		8'-4"		8'-4"		9'-4"		9'-4"		10'-4"		10'-4"		11'-4"		11'-4"		12'-4"		12'-4"	
TOTAL ALLOW UNIFORM LOAD	1545#		2320#		1855#		2780#		2720#		4100#		2950#		4430#		4200#		6300#		4600#		6900#		6030#		9500#	
MARK	L1		L3		L5		L7		L9		L11		L13		L15		L17		L19		L21		L23		L25		L27	
COMPONENT FOR STEEL SASH	3"-7½"-5½" JL	65#	3"-7½"-5½" JLL	96#	3"-7½"-5½" JL	82#	3"-7½"-5½" JLL	122#	3"-7½"-5½" JL	123#	3"-7½"-5½" JLL	180#	3"-7½"-5½" JL	160#	3"-7½"-5½" JLL	240#	3"-7½"-5½" JL	182#	3"-7½"-5½" JLL	273#	3"-7½"-5½" JL	240#	3"-7½"-5½" JLL	356#	3"-7½"-5½" JL	290#	17"-15½" I 17"-12½"-½" I	398#
MARK	L2		L4		L6		L8		L10		L12		L14		L16		L18		L20		L22		L24		L26		L28	
COMPONENT FOR SWING DOOR & WOOD SASH	3"-7½"-5½" I	65#	3"-7½"-5½" I	96#	3"-7½"-5½" I	82#	3"-7½"-5½" I	122#	3"-7½"-5½" I	123#	3"-7½"-5½" I	180#	3"-7½"-5½" I	160#	3"-7½"-5½" I	240#	3"-7½"-5½" I	182#	3"-7½"-5½" I	273#	3"-7½"-5½" I	240#	3"-7½"-5½" I	356#	3"-7½"-5½" I	290#	17"-15½" I 17"-12½" I	350#
MARK	L2		L4		L6		L8		L10		L12		L14		L16		L18		L20		L22		L24		L26		L29	
COMPONENT FOR SLIDING DOOR	Do	65#	Do	96#	Do	82#	Do	122#	Do	123#	Do	180#	Do	160#	Do	240#	Do	182#	Do	273#	Do	240#	Do	356#	Do	290#	Do	385#

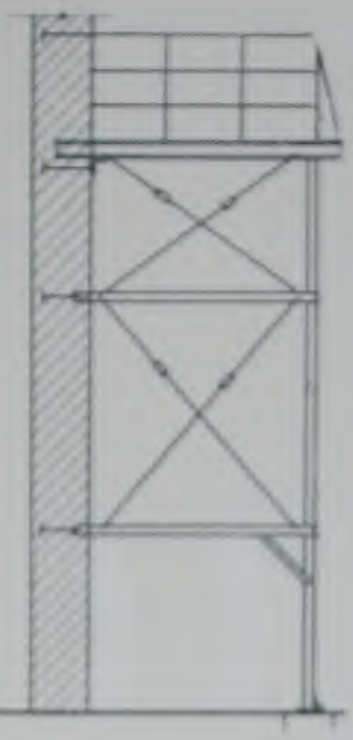
SPAN	12'-0" 9" WALL	WT	12'-0" 13" WALL	WT	13'-0" 9" WALL	WT	13'-0" 13" WALL	WT	14'-0" 9" WALL	WT	14'-0" 13" WALL	WT	15'-0" 9" WALL	WT	15'-0" 13" WALL	WT	18'-0" 13" WALL	WT	20'-0" 13" WALL	WT	25'-0" 13" WALL	WT	15'-0" 13" WALL	WT	20'-0" 13" WALL	WT		WT
LENGTH	13'6"		13'6"		10'6"		10'6"		15'6"		15'6"		17'0"		17'0"		20'0"		22'0"		27'0"		17'0"		22'0"			
TOTAL ALLOW UNIFORM LOAD	8700#		9360#		8075#		11000#		10300#		13700#		9500#		16250#		20000#		18300#		24200#		10000#		13000#			
MARK	L30		L33		L36		L39		L02		L05		L08		L51		L56		L57		L60		L63		L66			
COMPONENT FOR STEEL SASH	17'-8½" I 17'-12½" I	356#	17'-8½" I 17'-12½" I	482#	17'-8½" I 17'-12½" I	380#	18'-8½" I 17'-12½" I	511#	18'-8½" I 17'-12½" I	455#	18'-8½" I 17'-12½" I	600#	18'-8½" I 17'-12½" I	478#	18'-8½" I 17'-12½" I	720#	17'-8½" I 17'-12½" I	578#	17'-8½" I 17'-12½" I	1077#	15'-8½" I 17'-12½" I	1628#	18'-8½" I 17'-12½" I	603#	18'-8½" I 17'-12½" I	936#	I	
MARK	L31		L34		L37		L40		L43		L06		L09		L52		L55		L58		L61		L64		L67			
COMPONENT FOR SWING DOOR & WOOD SASH	17'-8½" I 17'-12"	330#	17'-8½" I 17'-12"	387#	17'-8½" I 17'-12"	309#	18'-8½" I 17'-12"	459#	18'-8½" I 17'-12"	409#	18'-8½" I 17'-12"	540#	18'-8½" I 16'-12"	422#	18'-8½" I 16'-12"	648#	16'-8½" I 17'-12"	506#	16'-8½" I 16'-12"	975#	15'-8½" I 16'-12"	1530#	18'-8½" I 17'-12"	542#	16'-8½" I 16'-12"	856#	I	
MARK	L32		L35		L38		L41		L44		L07		L50		L53		L56		L59		L62		L65		L68			
COMPONENT FOR SLIDING DOOR	17'-8½" I 17'-12"	305#	17'-8½" I 17'-12"	387#	17'-8½" I 17'-12"	309#	18'-8½" I 17'-12"	459#	18'-8½" I 17'-12"	409#	17'-8½" I 17'-12"	540#	18'-8½" I 16'-12"	422#	18'-8½" I 16'-12"	648#	16'-8½" I 17'-12"	506#	16'-8½" I 16'-12"	975#	15'-8½" I 16'-12"	1530#	18'-8½" I 17'-12"	542#	16'-8½" I 16'-12"	856#	I	

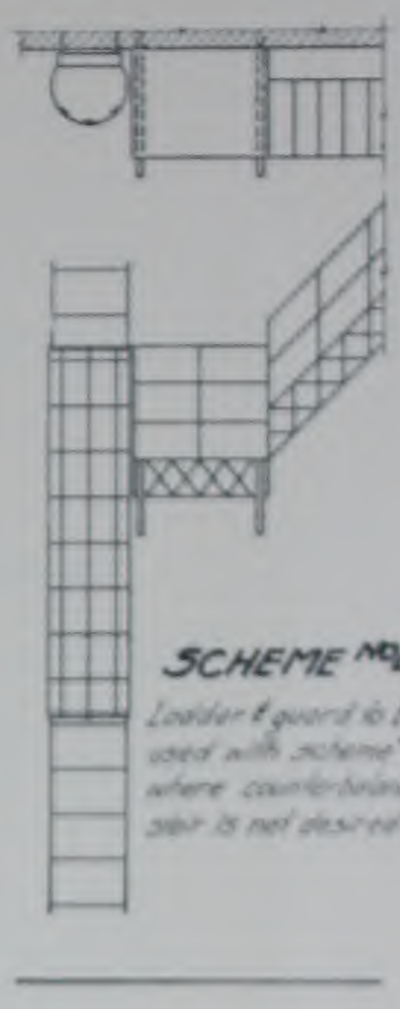
THE BUILDING PRODUCTS CO.



SCHEME NO 1

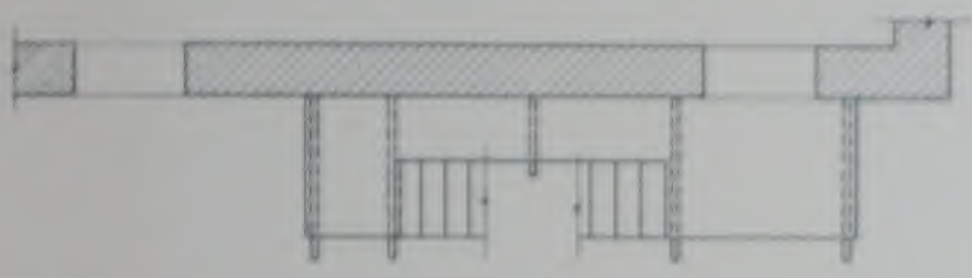
Self supporting fire escape running parallel to building.

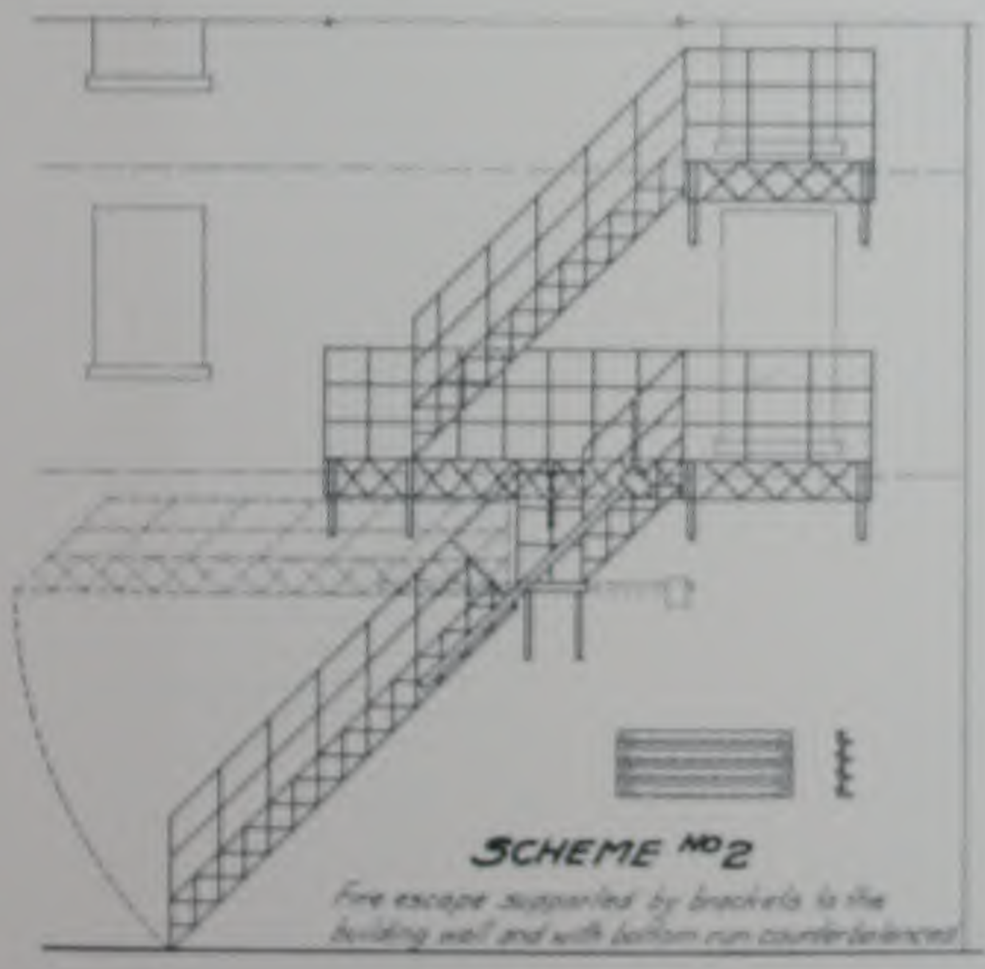




SCHEME NO 4

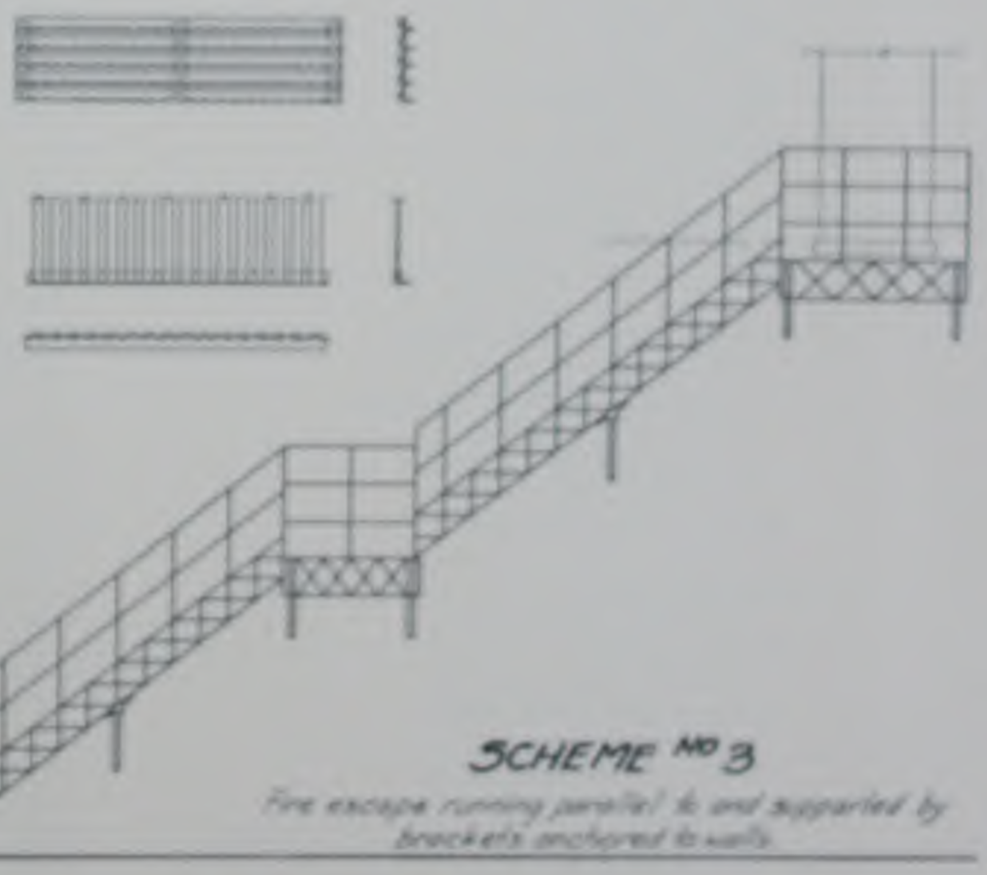
Ladder & guard to be used with scheme "2" where counter-balanced step is not desired





SCHEME NO 2

Fire escape supported by brackets to the building wall and with bottom run counterbalanced



SCHEME NO 3

Fire escape running parallel to and supported by brackets anchored to walls

FIRE ESCAPES.

Note:- The above drawings are merely indications of a few of our many installations. We are in a position to, and capable of, executing work of this character in accordance with any local or state conditions and specifications.

"Ornamental Iron Work by The Building Products Co."

The following partial list of recent contracts suggests the diversity of character and the widening breadth of territory of our ornamental iron and bronze activities:

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ST. JOSEPH'S SCHOOL TIFFIN, OHIO	W. R. DOWLING SHELBY, OHIO	ORR & MILLER LIMA, OHIO
SISTERS OF MERCY MOTHER HOUSE FREMONT, OHIO	MILLS, RHINES, BELLMAN & NORDHOFF TOLEDO, OHIO	THE MODERN CONST. CO. FREMONT, OHIO
WILSON JUNIOR HIGH SCHOOL ERIE, PA.	W. W. MEYERS ERIE, PA.	YEAGER & SONS DANVILLE, ILL.
GLANN SCHOOL ADAMS TOWNSHIP, OHIO	M. M. & M. B. STOPHLET TOLEDO, OHIO	O. H. ADLER TOLEDO, OHIO
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FRANCE HALL TIFFIN, OHIO	MILLER, FULLENWIDER & DOWLING CHICAGO, ILL.	C. E. DENNIS TIFFIN, OHIO
ASSUMPTION ACADEMY SYRACUSE, N. Y.	H. P. WEBER ALBANY, N. Y.	DAWSON BROS. CONST. CO. SYRACUSE, N. Y.
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ST PATRICK'S SCHOOL WATERVLIET, N. Y.	O'BRIEN & BIAL WATERVLIET, N. Y.	GREAT LAKES CONST. CO. CHICAGO, ILL.
MAUMEE UNION SCHOOL MAUMEE, OHIO	RHEINFRANK-FORSTER CO. TOLEDO, OHIO	THE NEWTON-BAXTER CO. TOLEDO, OHIO
WAKEFIELD SCHOOL WAKEFIELD, OHIO	DEVOSS & DONALDSON PORTSMOUTH, OHIO	P. W. JOHNSON SO WEBSTER, OHIO
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THREE OREGON TOWNSHIP SCHOOLS	M. M. & M. B. STOPHLET TOLEDO, OHIO	ORR & MILLER LIMA, OHIO
GALION JUNIOR HIGH SCHOOL GALION, OHIO	ALTHOUSE & JONES MANSFIELD, OHIO	ALFRED SCHNURR SANDUSKY, OHIO
IMMACULATE CONCEPTION SCHOOL OTTOVILLE, OHIO	A. DE CURTINS LIMA, OHIO	THE BAKER & SHINDLER CONST. CO. DEFIANCE, OHIO
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ELMORE SCHOOL ELMORE, OHIO	M. M. & M. B. STOPHLET TOLEDO, OHIO	ORR & MILLER LIMA, OHIO
SOUTH JUNIOR HIGH SCHOOL FINDLAY, OHIO	T. D. MCLAUGHLIN & ASSOCIATES LIMA, OHIO	ORR & MILLER LIMA, OHIO
NORTH JUNIOR HIGH SCHOOL FINDLAY, OHIO	T. D. MCLAUGHLIN & ASSOCIATES LIMA, OHIO	ORR & MILLER LIMA, OHIO
GYMNASIUM AND ADMINISTRATION BUILDING NEWARK, OHIO	VERNON REDDING & ASSOCIATES MANSFIELD, OHIO	O. J. HAWKINS & SONS NEWARK, OHIO
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NASHPORT HIGH AND GRADE SCHOOL NASHPORT, OHIO	J. R. GERMAIN ZANESVILLE, OHIO	W. S. JAMESON ZANESVILLE, OHIO

THE BUILDING PRODUCTS CO.

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BURNHAM SCHOOL SYLVANIA, OHIO	T. D. MCLAUGHLIN & ASSOCIATES LIMA, OHIO	HOLLOWAY & HERKERLE DELTA, OHIO
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SUNBURY SCHOOL SUNBURY, OHIO	T. J. PORTER COLUMBUS, OHIO	R. L. HOPPER DELAWARE, OHIO
LOUDENVILLE HIGH SCHOOL LOUDENVILLE, OHIO	VERNON REDDING & ASSOCIATES MANSFIELD, OHIO	ZEIGER & MILLAR SANDUSKY, OHIO
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ST. JOSEPH'S ACADEMY INFIRMARY ADRIAN, MICH.	ARTHUR DES ROGERS DETROIT, MICH.	THE SUTTER CONSTRUCTION CO. SAN DIEGO, CAL., 7016

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TOWER BUILDING CO. TOLEDO, OHIO	OWNER	THE H. J. SPARKS CO. TOLEDO, OHIO
RINGOLD-RAAB COMMERCIAL BUILDING TOLEDO, OHIO	JONES & LAVIGE TOLEDO, OHIO	THE H. J. SPARKS CO. TOLEDO, OHIO
S. S. KRESGE STORE TROY, N. Y.	HAROLD HOLMES DETROIT, MICH.	THE T. J. BAKER LUMBER CO. WASHINGTON, OHIO
OLD NATIONAL CITY BUILDING LIMA, OHIO	WALKER & WEEKS CLEVELAND, OHIO	THE NORTH-CORBET CONST. CO. CLEVELAND, OHIO

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K. K. K. T. TEMPLE DAYTON, OHIO	ALBERT KAHN DETROIT, MICH.	ROTHGEB & BARR COLUMBUS, OHIO
ST. IGNATIUS CHURCH CLEVELAND, OHIO	EDWARD J. F. GRAVEN BOSTON, MASS.	JOHN GRANT & SON CLEVELAND, OHIO
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PORTSMOUTH SAVINGS AND LOAN CO. PORTSMOUTH, OHIO	DEVORE & DONALDSON PORTSMOUTH, OHIO	THE CHAPPELEAR-GARDNER CONST. CO. PORTSMOUTH, OHIO